# Report of

**Hydrogeological Investigation** 

Foto-Hut Site #91-1101

Route 4 Rutland, Vermont

December 1993

Prepared for:

# Chittenden Bank NA

Two Burlington Square, P.O. Box 820 Burlington, Vermont 05402

Prepared by:

# THE JOHNSON COMPANY, INC.

5 State Street Montpelier, Vermont 05602 (802) 229-4600

# THE JOHNSON COMPANY, INC.

## Environmental Sciences and Engineering

December 6, 1993

Mr. Charles Schwer, Supervisor Sites Management Section Hazardous Materials Management Division 103 S. Main Street/West Office Waterbury, Vermont 05671-0404

Re:

Report of Hydrogeological Investigation for Foto-Hut Site,

Rutland, Vermont (Site #91-1011)

JCO #1-0342-2

#### Dear Chuck:

Enclosed please find the report for the Site referenced above. We have included an analysis of the likely contaminant sources. Pursuant to Sections 1922(10) and 1926 of the Vermont Underground Storage Tank Regulations it is our opinion that the costs of this investigation and the costs of the tank removal and associated contaminated soil and sludge disposal are eligible for reimbursement through the Petroleum Cleanup Fund (PCF).

The report includes recommendations for additional work. This additional work will commence with the preparation of a work plan for remedial investigations and remedial design. The work plan will also include a cost estimate for the investigations and design. The cost of generating the work plan is estimated to be \$1,500. It is our opinion that these and other remedial costs are eligible for reimbursement through the PCF. Attached is the remedial investigation and design work plan for your review and approval.

We would appreciate your prompt review of these documents, and a written response as to the acceptability of the proposed work plan. If you have any questions or comments, please do not hesitate to call me or Martin Johnson at 229-4600.

Mayman 2

Sincerely,

THE JOHNSON COMPANY, INC.

Donald M. Maynard, CG Project Geologist

2.00,000 00000

cc: Chris Bishop

### TABLE OF CONTENTS

COVER LETT	ER	Í
1.0 INTRODU	CTION	1
2.0 HISTORIC	CAL PERSPECTIVE	1
3.0 METHODO 3.1 3.2 3.3 3.4 3.5 3.6	WATER ELEVATIONS CONTAMINANT MIGRATION SOURCES OF CONTAMINATION	7 9 9 13 18 19 22 23
4.0 RESULTS	, CONCLUSIONS, AND INTERPRETATIONS	24
LIST OF FIGU	JRES .	
Figure 1 Figure 2	Site Location Map Cross Section	
LIST OF TABI	LES	
Table 1 Table 2 Table 3	Analytical Results of Soil Analysis Analytical Results of Groundwater and Product Samples Relative Mobility of Various Compounds	
LIST OF APP	ENDICES	
Appendix A Appendix B Appendix C Appendix D Appendix E Appendix F	Property Ownership Records Well Logs SCS Soils Maps Analytical Results Monitoring Well Water Level Data Water Supply Well Data	
LIST OF ATT	ACHMENTS	
Attachment 1 Attachment 2 Attachment 3 Attachment 4 Attachment 5 Attachment 6	Groundwater Contour Map Highest Concentrations of perchloroethylene measured in soils Highest Concentrations of toluene measured in soils Highest Concentrations of ethylbenzene measured in soils Highest Concentrations of xylenes measured in soils above 687 FNGVD Highest Concentrations of xylenes measured in soils below 687 FNGVD	

#### 1.0 INTRODUCTION

An extensive hydrogeological investigation has been completed at the Foto-Hut Site on Woodstock Avenue in Rutland, Vermont (the Site, see Figure 1, Site Location Map). This investigation was prepared in response to a request by Mr. Chris Bishop of the Chittenden Bank. The work performed during this investigation was detailed in a September 22, 1993 work plan presented to the Vermont Hazardous Materials Managements Division, Sites Management Section (HMMD). The work plan was approved by Mr. Charles Schwer, supervisor of the HMMD. The primary objectives of the work included:

- Characterization of the extent, chemical nature, and concentration of contamination in the soils and upper surficial aquifer at the Site.
- 2) Determination of the sources, and migration pathways of the contamination.
- 3) Identification or confirmation of existing and potential receptors of the contamination.
- 4) Development of a conceptual design for a term monitoring and/or remedial plan.
- 5) Determination of what percentage of costs are eligible for reimbursement by the Vermont petroleum cleanup fund (PCF).

#### 2.0 HISTORICAL PERSPECTIVE

The information presented in this section was collected during a background investigation conducted in the fall of 1993. The background investigation included a records search for any data regarding the history and operation of the Site and vicinity, including the following:

- Results of the following investigations and assessments available in the HMMD files:

  1989 underground storage tank (UST) removal assessment for Bob's Texaco in Rutland, Vt.

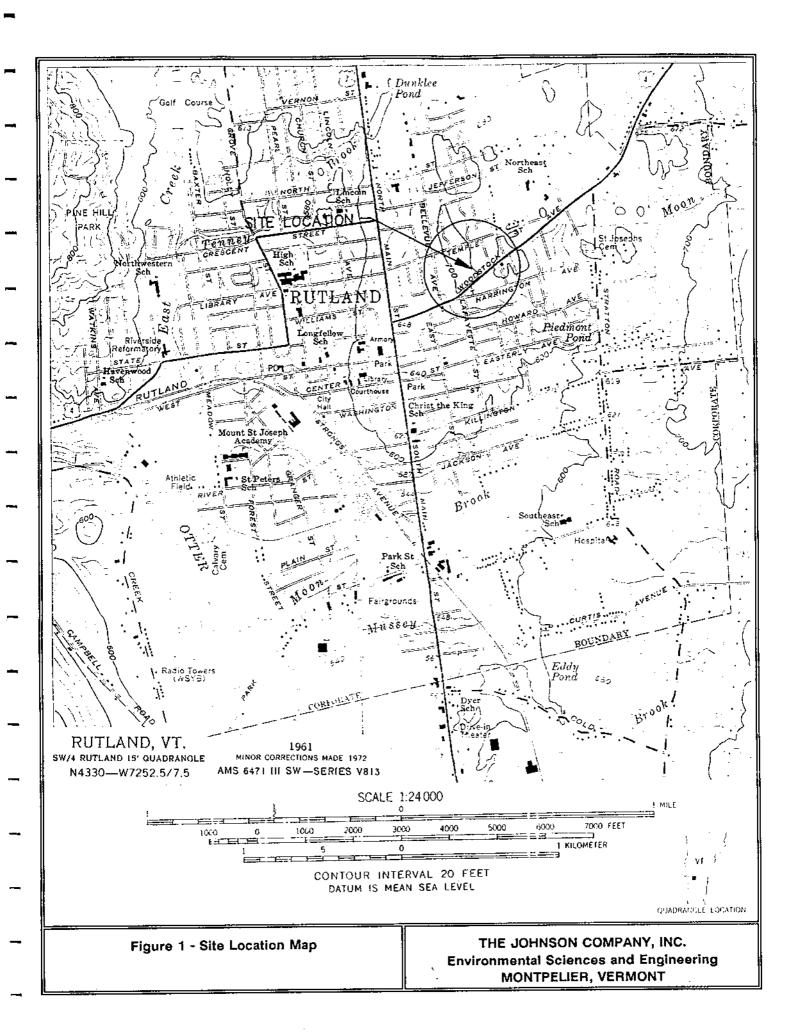
  Vermont Hazardous Release Site #89-0377

  March 4, 1991 report of investigation at the Foto-Hut Site performed by The Johnson Company, Inc.

  April 1992 report of UST removal at the Foto-Hut Site prepared by The Johnson Company, Inc.

  August 1993 Remedial Investigation Report, H. A. Eddy Convenience Store in Rutland, Vt. prepared by The
- December 16, 1992 and July 12, 1993 Preliminary Assessments of the Foto-Hut Site performed by the Vermont HMMD.

Johnson Company, Inc.



- Records of title searches (See Appendix A).
- Municipal or utility information on subsurface pipes or conduits.
- Water supply well logs and public water supply records.
- Existing geological maps available in the State Geologist's office.
- Soil Conservation Service soils maps.
- United States Geological Service (USGS) topographic maps.
- Vermont Mapping Program orthophotos.
- Town and City records.
- Department of Transportation and Public Works records.
- 1925 and 1971 Sanborn Insurance maps.

The Site is located near the terminal moraine system of the Burlington glacial stade. The Burlington stade was the last large scale advance of continental glacial ice during the Wisconsin Glaciation (about 12,000 years before present). Prior to the Burlington stade, Vermont was covered with ice greater than one mile thick at the Site. Sediments were deposited in the vicinity of the site by the glacier, and by associated lakes, rivers, and outwash fans. These sediments include: Dense silty basal tills; fine grained silt and clay lacustrine deposits; sandy fluvial deposits; coarse grained poorly sorted outwash deposits; and sandy ablation tills. Soils near the Site mapped by the Soils Conservation Service (in Appendix C) include: Georgia Stony Loam; Raynham Silt Loam; and Paxton Silt Loam. The Paxton Series Soils are directly below the Site. All three of these soils are characteristically low permeability sediments.

There are three buildings currently on the Site. One building (77 Woodstock Ave.) is over 85 years old, and is located in the southwest corner of the site (see Attachment 1, Groundwater Contour Map). The front half of this building has been used by Foto-Hut since 1987. The back half of the Foto-Hut building is vacant. The Foto-Hut building has a concrete slab floor, and five foot deep frost walls. The second existing building on the Site (87 Woodstock Ave.) is located on the southeast corner of the site (not shown on Groundwater Contour Map). This 16 year old building houses the Chittenden Bank. The third building is the Chittenden Bank drive-though service structure. Prior to 1925 until sometime after 1971, there was a fourth building located near the northwestern corner of the site. This building was a three car garage. Currently, most of the site is covered by buildings or asphalt. The Foto-Hut Site was used primarily as a laundry and dry-cleaning operation since prior to 1909 until 1970. The laundry was

called Rutland Cleaners and Dyers. Between 1970 and 1977, the Site was vacant. Other businesses have occupied the Foto-Hut building at one time or another, including: The Stitchery; Brownsville Girl Shoe Repair; Accent Realty; Grace A. Land Office; and Vermont Cycle.

Prior to 1925 until sometime before 1971, the southeast corner of the Site was used as a gasoline service station. This station was beneath the present location of the Chittenden Bank. The underground storage tanks were removed during construction of the bank.

The property immediately to the west of the Site (75 Woodstock Avenue) is owned by John Smart Antiques, and is currently being used as an antique store. This structure was built before 1925, and has a cellar in the southeast corner. The Smart building was used as an autobody and lacquer spraying shop (Brigg's Autobody) from before 1925 to 1987.

Across the Street from the Site at 84 Woodstock Avenue is a dry-cleaning and laundry service, Filippo Drycleaners. 84 Woodstock Avenue has been used as a laundry since before 1951. The parcel was also used as a gasoline service station between 1936 and 1951. At least one UST is suspected on the Filippo Cleaners property based on typical dry-cleaning operational practices.

Also across the street from the Site, at 86 Woodstock Avenue, is the H. A. Eddy filling station and convenience store. This property has been used as a filling station since 1982. The property was used as a restaurant prior to 1982. The Eddy property is currently listed as Vermont Hazardous Materials Release Site #93-1413. A subsurface investigation of the Eddy Site revealed extensive groundwater contamination. The contamination included benzene, toluene, ethylbenzene, xylenes (BTEX), and methyltert-butyl-ether (MTBE). 1,2-dichloroethylene (1,2-DCE) and perchloroethylene (PCE) have also been detected next to the Filippo Drycleaners at low concentrations in a groundwater monitoring well. The Remedial Investigation Report for the Eddy Site concludes that the source(s) of the contamination are offsite. The implication is that the contamination has migrated by preferential flow in utility trenches and conduits below Woodstock Avenue.

There are eight identified underground storage tanks (USTs) within 1,000 feet of the Foto-Hut Site. Five of these are on the Eddy Site, and are used for storage of kerosine, gasoline, and diesel. Three USTs are located at Bob's Texaco Station (93 Woodstock Avenue), about 300 feet west of the Foto-Hut building. The tanks at the Texaco station are replacements for four tanks removed in 1989. During the removal and replacement work, 120-150 cubic yards of petroleum contaminated soils were excavated from

93 Woodstock Avenue. The Texaco Site has been used as a Texaco Station since 1947.

In 1977 the Chittenden Bank purchased the Foto-Hut Site. In 1990 an inspection of the structure was performed by contractors hired by potential buyers of the property. During the inspection unpleasant odors were reported by the contractors. Samples of soils and the contents of pipes in the building were collected and analyzed in August 1990 by Scitest Laboratories of Randolph, Vermont. The samples contained toluene, ethylbenzene, xylenes, and perchlorethylene (TEX and PCE). The concrete floor of the unused portion of the building was partially demolished during sampling. An investigation of the piping was performed by The Johnson Company, Inc. in November 1990. The investigation confirmed the presence of PCE and TEX contamination in the soils west of and below the building. Numerous pipes outside the western wall of the building were traced and removed during the investigation. An abandoned UST (Tank #1, See Attachment 1) containing TEX and PCE contaminated fill was discovered during the investigation. The HMMD determined that contamination attributable to the UST was eligible for reimbursement by the Vermont Petroleum Cleanup Fund (PCF). Additional soil samples were collected by The Johnson Company on January 15, 1992. Between March 5 and 12, 1992 the UST was removed. During removal, two additional USTs (Tanks #2 & #3) full of TEX and PCE were discovered and removed. Contaminated soils, pipes, and sludge were transported off-site.

In December 1992, a preliminary assessment (PA) of the Site was prepared by the HMMD and submitted to the Environmental Protection Agency (EPA). On July 12, 1993 a second PA was prepared by the HMMD and submitted to the EPA. The July 12, 1993 PA was inaccurate in regards to the number of water supply wells within 0.25 and 0.5 miles of the Site. Two wells have been incorrectly mapped on Harrington Avenue, and the Site location is incorrect (See Attachment F). The locations of these wells were presumably based on unconfirmed well completion files maintained by the Vermont Water Supply Division. Telephone interviews with the well driller, Ottauquechee Drilling of West Bridgewater, Vermont, indicate that the wells were actually installed on Gleason Road, over one mile west of the Site. Therefore, there are no water supply wells identified within one half mile of the Site.

A telephone interview was conducted on November 23, 1993 with Ken Faig, Technical Support person for the International Fabric Care Institute. Mr. Faig provided information on typical machinery and historical operating practices based on descriptions of the tanks, piping, belt drive axle, and other appurtenances on the Site.

Mr. Faig mentioned that petroleum solvents were used exclusively for dry cleaning before 1933. The original use of the tanks was therefore petroleum solvents, since they are hooked to piping which was installed below the concrete floor, which was described on the 1925 Sanborn Maps. After 1933, both PCE and carbon-tetrachloride were typically used in dry cleaning, but petroleum is still being used by many operations today. Mr. Faig thought it very unlikely that PCE was deliberately mixed with the petroleum. He believes that the PCE was hand applied to spots, before the garment was dry cleaned. The PCE would then be extracted from the garment during the cleaning, and end up as contamination in the petroleum tanks. Storage of the PCE would typically be in drums or smaller containers within the building on the concrete floor.

The belt driven petroleum operations typically had four pieces of machinery: A washer, where the petroleum was mixed with the clothes; a centrifugal extractor, where the petroleum was removed from the clothes and sent to a "dirty" tank (note that the extractor needed to be bolted down and that 3/4" bolts were found in the building floor); and a tumbler, where the remainder of the petroleum was removed from the clothes by volatilization (the VOCs were vented to the outside air). The fourth piece of machinery was the vacuum still. The vacuum still was used to recycle the petroleum. Dirty petroleum (containing trace amounts of PCE) from the washers and extractors was piped to the dirty tank. A vacuum was then placed on the entire system, and steam was used to volatilize the petroleum. The volatilized petroleum was collected and returned to a "clean" tank, to be reused in the washer. Note that any leak in the vacuum rendered this system inoperative. The third pipe found in each UST was for drawing the vacuum. Mr. Faig could not think of any other use of a three pipe system other than vacuum still recovery for a petroleum based system. All the piping had to be maintained in a non-leaking condition. The vacuum still also contained a rag separator (water separators had not been invented). The rag separator was filled with rags which collected water and solids from the still. The rags were replaced daily, and were probably washed, dried, and returned to use.

It should be noted that all wiring, machinery etc. needed to be explosion proof inside the building, and therefore, the dry cleaning operation was probably limited to the back room. The steam was probably originally generated using a coal fired furnace, but this may have been upgraded to fuel oil later on. No fuel oil USTs have been discovered at the Site.

#### 3.0 METHODOLOGY AND ACCOMPLISHMENTS OF THE INVESTIGATION

This section describes specific tasks which were performed during the investigation. It also includes detailed descriptions of the methods used, and presents the data collected.

A background investigation was performed which included research of the sources described above in Section 2.0. The results of this investigation are presented in appropriate sections throughout this report. Dig-Safe was contacted prior to initiating any intrusive work on the Site. The existing site-specific health and safety plan (HASP) from the March 1992 UST removal was revised. The HASP complies with the requirements of OSHA regulations 29CFR 1910.120.

The Johnson Company uses Standard Operating Procedures including specific steps for many types of data collection. These procedures have been developed over many years based upon field experience with the instruments and techniques. All field work was performed in accordance with the appropriate standard operating procedure.

#### 3.1 SITE INVESTIGATION

During the Site investigation, potential receptors of atmospheric contamination were identified and evaluated. Currently, the unused portion of the Foto-Hut building is the only identified receptor of atmospheric contamination from the Foto-Hut Site. Volatile organic compound vapor concentrations between 0.2 and 0.4 parts per million (ppm) were measured in the breathing zone with a photoionization detector (PID) in the building on October 7 and 11, and on November 5, 1993. The likely source of these vapors is the contaminated soils exposed by partial demolition of the concrete floor. Given the chemicals present in the soils and groundwater, and the vacancy of the affected portion of the building, these concentrations do not pose an unacceptable risk to human health. Potential receptors of atmospheric contamination include construction workers if the building or asphalt east of the building are excavated. Breathing zone vapor concentrations up to 3 ppm were measured with the PID during drilling east of the building. These concentrations are below the permissible exposure limits for the compounds detected in soil and water samples.

The Site was screened using a metal detector to identify any previously unidentified USTs. Three areas were identified which had positive responses for underground metal objects. In each case, the apparent size of the object was four to six feet in diameter. Two areas with positive responses were in the parking lot behind the Foto-Hut building, and the third was between the Foto-Hut building and the neighboring antique store (See Attachment #1). This third location coincides with the capped termination

of three pipes removed in 1991.

A total of eight soil borings were drilled, and seven monitoring wells were installed on the Site. The boring locations are displayed on Attachment #1 as MW-1 through MW-8 and PZ-1. One piezometer was installed as well. Soil samples were collected continuously during drilling and screened in the field with a PID using the headspace method. Soil samples were collected from the auger blades during drilling to three feet below ground surface (bgs). With the exception of MW-8 and PZ-1, soil samples were collected by split spoon from three feet bgs to the total hole depth. Split spoon samples were collected with a 24" long spoon driven by a 140 pound hammer with a drop of 30 inches. MW-8 and PZ-1 soil samples were collected from the auger flights and by hand auger. A monitoring well was not installed in the MW-6 borehole due to refusal above the apparent water table. Each of the seven wells is between 15 and 20 feet deep. A shallow piezometer, PZ-1, was installed to six feet below ground surface next to MW-1. Deep wells beyond 20 feet bgs were not drilled due to high PID measurements of the soil samples collected during drilling. It was decided in the field that there was a high danger of penetrating a confining layer, and potentially spreading the contamination to an underlying aquifer. A geologic log of each well and boring is provided in Appendix B.

Contaminated soil from drilling with PID headspace measurements above 150 ppm were drummed and temporarily stored on-site. Soil from drilling with PID headspace measurements below 150 ppm was buried on-site near observation well OB-2 which was installed during the UST removal discussed in Section 2.0 (see Attachment #1). Waste water from drilling and well development was discharged to the ground on-site.

All the monitoring wells are constructed of PVC with 5 foot long factory-slotted screens, except the upgradient well MW-4, which has a 10 foot long screen. All the wells are constructed with a locking cap and flush mounted well guard, except MW-8, which is located inside the Foto-Hut building. The annulus of each well was sealed with hydrated bentonite from the top of the sand pack to two feet or less below ground surface. Monitoring wells MW-5 and MW-7 are screened in the upper portion of the surficial aquifer, so that the groundwater level measured on November 8, 1993 intersected the screen. Each well was developed by bailing until dry, or until five well volumes were removed. With the exception of MW-8 and PZ-1, the wells were installed by Tristate Drilling and Boring of Lyndonville, Vermont using an eight inch diameter hollow stem auger. MW-8 and PZ-1 were installed by The Johnson Company using a four inch diameter solid stem auger.

The well locations and elevations were surveyed by The Johnson Company using an autolevel, compass, and tape. The elevations are correlated to an approximate USGS national geodetic vertical datum (NGVD). A site map was prepared on our computer AUTOCAD system which includes a contour map of relative water elevations, site buildings and relevant features, and potential contamination sources and receptors (Attachment #1). Delineations of the contamination plumes are portrayed on Attachments #2, #3, #4, #5, and #6.

#### 3.2 SAMPLING AND CHEMICAL ANALYSIS

#### 3.2.1 Soils

Seven soil samples were collected for volatile organic compound (VOC) analysis by EPA Methods 8010 and 8020. The samples collected for laboratory analysis were those with the highest PID headspace measurements in each boring. A soil sample for laboratory analysis was not collected from MW-2 during this investigation. Numerous soil and tank sludge samples were collected at the Site during previous investigations as well. The soils analytical results are including in Appendix D, and are summarized below in Table 1.

Soils are relatively uniform where undisturbed. The native soil encountered during drilling is primarily a fine sand with 20-30% silt and subangular gravel. This soil has been interpreted to be a native ablation till deposit. A soil with similar grain size characteristics, but containing bricks and debris typically overlies the native material. A clean sand horizon was encountered at depth in well MW-4, and below Tanks #1, #2, and #3. The lateral and vertical extent of this layer has not been determined.

		TABLE 1 - ANAL	The state of the	ULTS OF SOIL F		REVERSE CH	rationalizada (Militia)	
Sample Name	Sample Date	Depth/ Elevation (ft bgs/ FNGVD)	Soil Type/ PID (ppm)	EPA Analytical Method	Toluene (ppb)	Ethyl benzene (ppb)	Total Xylene (ppb)	Other Detected Compounds (ppb)
MW-1	9-30-93	11.5-13.5/ 678.4-676.4	fs,ss,lg /20	8010/8020	<1	<1	2	DL<1
MW-3	9-30-93	6-8/ 683.6-681.6	fs,ss,sg /115	8010/8020	<2	18	29	DL<2
MW-4	10-1-93	14.5-16.5/ 675.4-673.4	fs,lg /7.7	8010/8020	<1.1	<1.1	1	DL<1.1
MW-5	10-1-93	6-9/ 680.6-679.6	fs.as /155	8010/8020	67	560	3,200	DL<56
MW-6	10-1-93	3-5/ 685.5-683.5	fs,ss /250	8010/8020	<68	930	7,200	DL<66
MW-7	10-1-93	7-9/ 681.5-679.5	ts,as, <b>ig</b> /0.6	8010/8020	<1	<1	<1	DL<1
MW-8	10/11/93	5/683.4	ss/250	8010/8020	270	3,800	39,000	DL<270
X1 Tank 1 Contents	3-17-92	10.3-13.8/ 680.7-677.2	fs	8270 8100 8240 8080 8150	ND <500	<500	3,824 m 1,734 o.p 2,090	343 Chrysene 335 Pyrene 1,064 2-Methylnaphthalene 3,321 Naphthalene 335 Phenanthrene 230 ppm TPH <500 Perchlorethylene DL<100 Post&PCB DL<100 Herbicides
X4 Tank 2&3 Contents	3-17-92	8.6-12/ 682.4-679	şludge	8240	ND <1.26 ppm	ND <1.26 ppm	<1.26 ppm	DL<1.26 ppm
X2	3-17-92	5.8-13/ 685.2-678	fs,ls /101	8240 8080	ND<500	7,831	91,878 m 39,365 o.p 52,513	DL<100 Pest&PCB
Soil #1 Tank #1	3-5-92	3-5/688-686	fs, ss /33	8240	3,490	8,780	58,500 m 23,000 o,p 35,500	6,820 Perchlorethylene DL<1,500

sample lame	Sample Date	Depth/ Elevation (ft bgs/ FNGVD)	Soil Type/ PID (ppm)	EPA Analytical Method	Toluene (ppb)	Ethyl benzene (ppb)	Total Xylene (ppb)	Other Detected Compounds (ppb)
Soil #1 Duplicate	3-5-92	3-5/688-686	fs, ss /33	8240	4,160	8,840	58,900 m 26,800 o.p 32,100	7,720 Perchlorethylene DL<1,500
Soil #2 Tank #1	3-6-93	7/684	fs, ss	8240	<1,500	1,569	7,660 m 3,360 o,p 4,300	DL<1,500
Soil #3 Tank#1	3-6-93	9/682	fs, ls	8240	<1,500	1,850	10,840 m 6,540 e,p 4,300	DL<1,500
\$1	1-15-92	0-1/ 688.0-687.0	200	8240 418.1	48	<40	<40	423 Perchlorethylene DL<20 1,000 ppm TPH as Oil & Grease
§ 1	1-15-92	2-3/ 686.0-685.0	260	8240 418.1	1,500	5,160	52,600 m 24,700 o,p 27,900	3,550 Perchlorethylene DL<1,000 13,000 ppm TPH
S 2	1-15-92	0-1/ 688.0-687.0	250	8240 418.1	<1,000	<1,000	<2,000	DL<1,000 860 ppm TPH
5 2	1-15-92	1.1-2.2/ 686.9-685.8	285	8240 418.1	<1,000	<1,000	<2,000	DL<1,000 580 ppm TPH
\$ 3	1-15-92	0-0.92/ 688.0-687.1	210	8240 418.1	<1,000	<1,000	<2,000	DL<1,000 1,500 ppm TPH
\$ 3	1-15-92	0.92-1/ 687.1-687.0	75	8240 418.1	<1,000	<1,000	<2,000	OL<1,000 <30 ppm TPH
Near Hole (NH)	11-29-90	≠5-6/ 636-685		8010 <i>j</i> 8020	2,120	3,850	15,700	420,000 Total Aromatics as Xylene DL<525
81	11-29-90	0.58-0.92/ 687.4-687.1		8010/ 8020	4	<2.5	80	1,518 Total Aromatics DL<2.5
B 2	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	5	<1.9	26	296 Total Aromatics

		TABLE 1 - ANAI	YTICAL RES	SULTS OF SOIL.	analysis in	REVERSE CH	RONOLOGICAL	ORDER
Sample Name	Sample Date	Depth/ Elevation (ft bgs/ FNGVD)	Soil Type/ PID (ppm)	EPA Analytical Method	Toluene (ppb)	Ethyl benzene (ppb)	Total Xyiene (ppb)	Other Detected Compounds (ppb)
B 3	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	112	<1.8	110	3,335 Total Aromatics DL<1.8
B 4	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	<3.1	<3.1	<3.1	<31 Total Aromatics DL<3.1
85	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	10	11	61	436 Total Aromatics DL<2.1
B 5	11-29-90	2.33-2.67/ 685.7-685.3		8010/ 8020	2,073	1,590	2,410	115,000 Total Aromatics DL<691
86	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	<2.7	<2.7	<2.7	<27 Total Aromatics DL<2.7
B 7	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	12,300	1,400	31,900	351,000 Total Aromatics DL<139
В7	11-29-90	1.67-2.0/ 686.3-686.0		8010/ 8020	3,170	2,500	54,100	359,000 Total Aromatics DL<265
B 8	11-29-90	0 -0.33/ 688.0-687.7		8010/ 8020	211	<178	<178	3,140 Total Aromatics DL<178
88	11-29-90	0.58-0.83/ 687.4-687.2		8010/ 8020	<2	<2	<2	<20 Total Aromatics DL<2
01	11-29-90	≈3/688		8010/ 8020	32,700	69,500	189,000	4,030,000 Total Aromatics 4,350 1,2 Dichlorethylene 742 Benzene DL<219
02	11-29-90	0.5/690.5		8010/ 8020	1,408	<179	1,530	36,300 Total Aromatics DL<179
03	11-29-90	≠2/689		8010/ 8020	18,800	56,300	199,000	4,790,000 Total Aromatics DL<1,400
04	11-29-90	2/689		8010/ 8020	<2.6	<2.6	<2.6	<26 Total Aromatics OL<2.6
05	11-29-90	≈2.5/688.5	-	8010/ 8020	<2.7	<2.7	<2.7	<27 Total Aromatics DL<2.7

		TABLE 1 - AN	ALYTICAL RES	SULTS OF SOIL	ANALYSIS IN	REVERSE CH	RONOLOGICA	L ORDER
Sample Name	Sample Date	Depth/ Elevation (ft bgs/ FNGVD)	Soil Type/ PID (ppm)	EPA Analytical Method	Toluene (ppb)	Ethyl benzene (ppb)	Total Xylene (ppb)	Other Detected Compounds (ppb)
06	11-29-90	≈4/687		8010/ 8020	3	<2.4	10	192 Total Aromatics OL<2.4
Soil F	8-15-90			8010/ 6020	Inter- ference	Inter- ference	Inter- ference	>143 ppm Total Aromatics 238 Perchlorethylene DL<5
Soil C	8-15-90			8010/ 8020	<3	<3	<3	DL<3

Key: fs = fine sand, ss = some silt, lg = little gravel, as = and silt, ls = little silt. DL = detection limit for PCE.

TPH = total petroleum hydrocarbons as oil and grease.

#### 3.2.2 Water

One round of water samples was collected from all of the monitoring wells, including one existing observation well (OB-1) installed during the UST removal. The samples were analyzed using EPA Methods 601 and 602, or 8240 for VOCs. Groundwater samples were collected by a qualified Johnson Company Site Technician and analyzed at Industrial and Environmental Analysts (IEA) in North Billerica, Massachusetts. All sampling was performed in accordance with EPA's "RCRA Groundwater Monitoring Technical Enforcement Guidance Document". Sample collection included preparation of a trip blank, a field blank, and a duplicate of the MW-3 sample. These three samples were used for quality control and quality assurance (QA/QC) purposes. Due to refusal above groundwater, no sample is available for MW-6. Water samples and product samples have been collected from the Site in the past. The analytical results are included in Appendix D, and a summary is provided in Table 2 below.

The enforcement standards for 1,2 DCE and xylenes were exceeded in the groundwater based on the analytical results of sample from wells MW-8 and OB-1. No groundwater contamination was detected in any other well except 5 ppb of 1,1,1-Trichloroethane (TCA) in well MW-4. This concentration is at the method detection limit, and is the only documented occurrence of TCA on the Site.

Well Name	Sample Date	Water Level (feet below top of casing)	Method	Toluene (ppb)	Ethyl benzene (ppb)	Totai Xylene (pph)	Other Detected Compounds (ppb)
MW-1	10-12-93	4.86	601/602	<1	<1	<1	DL<1
MW-2	10-12-93	3.84	601/602	<1	<1	<1	OL<1
MW-3	10-12-93	4.97	601/602	<1	<1	<1	DL<1
MW-3 Dup.	10-12-93	4,97	601/602	<1	<1	<1	ĐL<1
MW-4	10-12-93	4.39	8240	<5	<5	<5	5 1.1,1-Trichloroethane DL<5
MW-5	10-12-93	4.98	8240	<10	<10	<10	DL<10
MW-7	10-12-93	4.84	601/602 8240	<1 <5	<1 <5	<1 <5	DL<1 DL<5
MW-8	10-12-93	5.47	8240	<100	<100 (Est.80)	620	430 1,2 Dichloroethend DL<100
OB-1	10-12-93	6.78	601/602	8	60	560	61 cis-1,2- Dichloroethene DL<5
OB-1	9-21-92		601/602	59	144	1,240	268 cis-1,2- Dichloroethylene
Tank #2 Contents	3-6-92		8240	643ppm	985ppm	5,100ppm m 2,290ppm o,p 2,810ppm	1,030 ppm Perchlorethylene DL<1,250
Tank #3 Contents	3-6-92		8240	570ppm	908ppm	4,810ppm m 2,280ppm o,p 2,530ppm	848 ppm Perchlorethylene DL<1,250
Tank #1 Contents	11-29-90		601/602	384	241	5,900	DL<10
Tank #1 Excavation	1-15-92	<b>≈4.</b> 5	8240	<150	<150	1,256 m 686 o,p 570	QL<150
Яре Н	8-15 <del>-9</del> 0		8010/8020	Inter- ference	Inter- ference	Inter- ference	137 ppm Perchloroethylene
Pipe I	8-15-90		8010/8020	Inter- ference	Inter- ference	Inter- ference	<50 ppm Perchloroethylene

Key: DL indicates the practical method detection limit for PCE after dilution of the sample.

Subsurface mobility characteristics of the five major contaminant constituents have been evaluated. The non-aqueous phase liquid (NAPL) mobility is controlled by a number of factors including: sorption to organic carbon, dispersion, viscosity, porosity, biodegradation, groundwater velocity, solubility, and volatilization. Presented in Table 3 below are relative comparisons of mobility factors between benzene, toluene, ethylbenzene, xylenes, perchlorethylene, and 1,2-dichloroethylene.

Typical biodegradation of PCE occurs in a six step process. PCE degrades slowly to Trichloroethylene (TCE), which quickly degrades to cis-1,2-Dichloroethene (cis-1,2-DCE), which degrades to trans-1,2-Dichloroethene (trans-1,2-DCE), which degrades to 1,1-Dichlorethylene (1,1-DCE), which degrades to vinyl chloride. PCE was detected in the product samples from tanks 2 & 3, as well as in the soils from tank #1, and in soils and pipes inside the building. However, TCE and 1,2-DCE were not detected in these samples. TCE has not been detected on-site. Cis and Trans-1,2-DCE have been detected in soils and groundwater downgradient of the tanks (Out-1, OB-1 and MW-8).

The non-detection of VOCs reported in the analytical results of the MW-5 water sample are not as expected. The analytical and PID measurements of the soils at the bottom of the boring showed significant VOC contamination (3,200 ppb xylenes, 560 ppb ethylbenzene, 67 ppb toluene, and 155 ppm PID soils headspace). A PID headspace measurement of the well on November 5, 1993 showed 35 ppm VOCs in the well annulus. The water quality results were double checked by IEA upon the request of The Johnson Company.

One explanation for the absence of any detectable VOCs in the sample is that water from the overlying gravel layer flowed into MW-5 after purging. However, if this were the case, one would expect the water level in MW-5 to be somewhere within the gravel layer. The water level in MW-5 has been continuously observed to be about two feet below the base of the gravel, and has been bailed dry on two occasions. A second hypothetical explanation is a preferential pathway, possibly a coarse grained lens, which is supplying water to MW-5. This water presumably would not have sufficient contact time with contaminated soils to dissolve the contaminants. If this were the case, we would have seen the lens during the continuous split spoon sampling. In addition, this would imply that the contaminant transport leading to the contaminated soils was not through groundwater. A third possibility is that recharge to the well is from a lower aquifer through the bottom of the sand-pack. This recharge would occur preferentially through a thin aquitard below the bottom of the well after purging, rather than from the contaminated soils around the well annulus. This hypothesis is supported by the observed presence of a lower sandy

aquifer in monitoring well MW-4. The recharge would presumably be fast enough that the relatively insoluble compounds such as xylenes would not be dissolved into the recharging groundwater.

We cannot discount the existence of perchlorethylene DNAPL pools. However, observations of the free product in tanks #2 & #3, and free product removed from MW-6 soil samples, did not show a sinking portion. Preferential enrichment of unsaturated soils below the building by PCE can be expected due to volatility differences in the compounds. Stripping of toluene by dissolution into groundwater can be expected to cause relative depletion of toluene in saturated soils. Continuous bleeding of 1,2-DCE into the aquifer from PCE contaminated soils is expected.

Compound	Molecular Weight	Specific Gravity (@ 20°C)	Viscosity (cp a55°F)	Solubility of pure product in Water (mg/l a20°C)	Sorption (log KOW/KOC)	Volatility Henry's Law Constant (atm- m'/mole)	Bio- degradation Potential	Relative Mobility of NAPL	Relative Mobility by Vapor Phase	Relative Mobility by Dissolved Phase
8enzene	78.11	0.8786	0.724	1780 Most soluble	2.12/1.69 Low Sorption	0.00555	Slow	Mobile	Mobile	Highly Mobile
Ethylbenzene	106.17	0.867	0.746	152	3.15/ High sorption	0.00644	Rapid	Second Least Mobile	Second Least Mobile	Second Least Mobile
Toluene	92.1	0.867	0.649	515	2.56/2.06	0.00664	Rapid	Mobile	Mobile	Mobile
Xylenes ortho meta para	106.17 106.16 106.17	0.88 0.864 0.86	0.682	175 	2.95/2.11  High sorption	0.00527 0.00255 0.00251 Least Volatile	Rapid	Mobile	Least Mobile	Mobile
Perchlorethylene	165.8	1.626 Most Dense	0.958 Most Viscous	150 Least Soluble	2.6/2.42	0.0287 Most Volatile	Slow	Least Mobile	Highly Mobîle	Least Mobile
1,2- Dichloroethene	96.95	1.26- 1.28 Dense	0.40 a20°C Least Viscous	700-800 Second Most soluble	/0.70- 0.48 Least sorption	0.00532- 0.0066	Slow	Highly Mobile	Mobile	Highly Mobile

Log KCW/KOC from Montgomery J. H. and Welkom L. M. 1990; "Chemical Desk Reference"
Henry's law Constant from Appendix A EPA 450/3-85-007
Biodegradation susceptibility from Howard, P. H., 1990; "Handbook of Environmental Fate and Exposure Data for Organic Chemicals"
All other data from Verschueren, Karel, 1983; "Handbook of Environmental Data on Organic Chemicals"
Key: cp = centipoise. KOW = octanol water partitioning coefficient. KOC = Carbon Absorption Isotherm Slope

#### 3.3 WATER ELEVATIONS

Groundwater levels in the wells were measured on several occasions. Water level data is presented in Appendix E, and a contour map of adjusted water elevations is included as Attachment 1. Water level measurements were performed using a Solinst water marker. One round of measurements on October 11, 1993 was performed using an interface probe. No NAPLs were detected in any of the wells. Measurements are made in reference to the top of PVC casing in each well. The water markers were decontaminated with a soapy wash and rinse between wells.

It rained on-site on November 5, 1993. There was an increase in the water elevations in nearly all the wells between November 5 and November 8 by 0.1 to 0.2 feet. The water level in OB-1 remained level over that period, and in MW-8 the water level increased by a foot. This may have been due to a slug of rainwater infiltrating west of the Foto-Hut building, and migrating eastward under the building. If this is the case, two characteristic effects should be observable:

- Temporal changes in water quality due to changes in residence time
- Highest contaminant concentrations in groundwater after a long dry period

A downward vertical hydraulic gradient has been measured at the Site. The vertical hydraulic gradient between wells MW-1 and PZ-1 was 0.052 ft/ft downward on November 8, 1993. A similar downward gradient has been measured in a well nest located on the Eddy Property, south of the Site. All water level measurements were normalized to a 680 foot elevation prior to preparing a contour map. Calculations of the normalization procedure are included in Appendix E.

Groundwater flow in the surficial aquifer below the Site is primarily towards the south and east. The gradient and flow direction is strongly controlled by the availability of recharge from precipitation, as well as by the hydraulic conductivity of the aquifer. Low hydraulic gradients are observed beneath the asphalt parking lots due to a gravel sub-base and the absence of infiltration. A groundwater high is observed northwest of the Foto-Hut building due to recharge through the lawn from infiltration. A high hydraulic gradient is observed on the western edge of the Foto-Hut building due to "ponding" of the infiltration water behind the frost walls and to the lack of infiltration below the building. Local depressions in the groundwater table are observed near storm drains, even though the drains do not appear to intersect the groundwater table.

#### 3.4 CONTAMINANT MIGRATION

Observed contaminant distributions in the soils and groundwater appear to correlate generally with a hypothetical logarithmic distribution. A logarithmic elliptical decrease in concentration is generally correlated with an increase in distance from the sources. The length and breadth of the ellipse is dependant on groundwater velocity and chemical specific transport characteristics.

Pipe sources have probable leakage locations at knuckles and junctions. This will generate characteristic patterns of isolated pockets of contamination. Due to relative volumes of contaminants released, contamination generated from a leaky pipe is likely to be much smaller in areal extent than that generated by the tanks.

The measured concentration of contaminants in soils samples is highly variable. Samples from the same location, but collected at different times, sometimes have different concentrations. Samples taken at different depths at the same location may give widely different contaminant concentrations. Therefore, considerable judgement was required in preparing the isopleth contour maps presented in Attachments 2 through 6. The Cross Section, Figure 2, also displays some isopleths. The section and maps are based on arbitrary judgements of the representativeness of each data point and application of the hypothetical distribution described above. For instance, the maps of toluene, xylene, and ethylbenzene soil concentrations were based on data excluding points less than one foot deep. It was determined that the shallow soil samples (less than 1 foot bgs) were typically much less contaminated than deeper samples (1-3 feet bgs) at the same location. A map based on the shallow clean samples would be inaccurate in assessing the probable extent of maximum soil contamination. Similar judgement used in other aspects of mapping are included on the appropriate maps.

Soil contamination cast of the building appears to be limited to below 3 feet bgs. The upper three feet of soil is a coarse grained sub-base for the parking lot. PID headspace measurements of the coarse grained soils did not detect VOC contamination. This phenomena is probably due to the low residual saturation capacity of the gravels, and possible to passive venting of the gravels by the storm drain network and trenches.

FIGURE 2. EXTENT OF PCE, ETHYLBENZENE, AND 1,2 DCE IN SOILS FOTOHUT PROPERTY RUTLAND, VERMONT 700 700 698 698 696 694 694 692 692 GROUND SURFACE 690 688 SURFACE ASPHALT 688 SILTY SAND FILE SILTY SAND FILL SAND AND GRAVEL FILL 686 686 SILTY SAND TILL SILTY SAND TILL 684 684 682 682 SILTY SAND TILL 680 680 678 678 FINE AND MEDIUM SAND 676 676 PATUM ELEV 675.00 0 + 750 + 500 + 250+00**LEGEND** -- ETHYLBENZENE ISOPLETH (IN PPB) IN SOILS CROSS SECTION FOTOHUT CROSS SECTION A-A' -- EXTENT OF PCE CONTAMINATION IN SOILS THE JOHNSON COMPANY, INC. SCALE: 1"=5" Environmental Sciences and Engineering EXTENT OF 1,2 DCE CONTAMINATION IN GROUNDWATER DATE: 11/15/93 DRAWN BY: LRH; CHECKED BY: DMM MONTPELIER, VERMONT

1-0342-2\SECTION

Soils inside the building are contaminated with VOCs above the apparent seasonal high groundwater table (SHGW). One probable migration mechanism is volatilization from a NAPL pool. The concrete floor and frost walls of the building act as a trap for VOC vapors. The vapors probably condense below the frozen soils and unheated floor during the winter time, and drip back down to groundwater. This percolation has left a residual saturation of contaminants above the SHGW. If this scenario is correct, the soils contamination will be relatively evenly spread in the soils above the NAPL.

A second probable mechanism of contamination migration is long term slow leakage from the process pipes. This mechanism is supported in specific locations by "hot spots" in the shallow soils. Migration through subsurface pipes and preferential conduits is another potential pathway. The storm drains are a potential receptor of any contaminated groundwater migrating below the Foto-Hut building. The storm drain system was installed prior to 1959, and empties into the Rutland sanitary sewer.

A four inch diameter iron pipe was discovered in the floor of the Foto-Hut building. The top of the pipe was flush with the floor, and there was no evidence of grates or other construction typical of a floor drain. The four inch pipe makes a right angle bend immediately below the concrete floor. The iron pipe is then connected to a four inch clay or concrete pipe which travels horizontally below the floor in a southeast direction. The connection is loose, and soil has entered the pipe. A PID measurement performed on November 5 gave a 42 ppm headspace in the pipe. The flush geometry of the pipe penetration is not typical of either a sanitary sewer connection or a floor drain. The most likely use of the pipe would be a drain from a specific piece of equipment.

Piping inside the Foto-Hut building is primarily placed directly below the concrete floor. The floor thickness varies from 4 inches to one foot. The 1 to 2" diameter pipes typically have threaded couplings, bushings, etc. where they penetrate the floor. The concrete floor was in place prior to 1925 per the Sanborn insurance maps.

Some chemical specific observations are provided below:

#### PCE and 1,2 DCE

There has been limited migration of NAPL/Dissolved PCE.

1,2-DCE may be a daughter or a contaminant of the original solvent.

PCE concentrations in soils exceed Interim Soil Cleanup Guidance (ISCG) levels of 20 times the Enforcement Standards (ES = 0.7 ppb) in groundwater.

PCE has not been detected in groundwater on-site.

1,2-DCE concentrations in groundwater are above the ES of 70 ppb below the Foto-Hut building.

Widely disparate soil concentrations are reported for MW-8 and S-1 samples. This may be due to natural soil and sampling variability, or to volatilization after penetration of concrete.

The PCE plume in soils appears to have moved slightly downgradient from the tanks.

Migration of PCE and 1,2-DCE is primarily by volatilization/condensation over NAPL pool.

#### **TOLUENE**

Apparently there are two sources: Pipe I, and the USTs.

Migration is probable by all three phases.

The ES and ISCG level are not exceeded in water or soils respectively.

#### **ETHYLBENZENE**

The ES has not been exceeded in groundwater.

The ISCG level is exceeded in soils in the UST area and under the building.

#### **XYLENES**

The ES of 400 is exceeded inside building and at former UST locations.

The ISCG level of 8000 is exceeded near the UST area and under the Foto-Hut building.

There appear to be two sources: Pipe I, and the USTs.

Water quality results at MW-5 are questionable.

Migration is primarily by free product phase, and less by dissolved or vapor phases.

Based on only two measurements, the xylene concentration in groundwater has decreased in OB1 in 11 months, as have ethylbenzene and toluene concentrations. This is probably due to removal of the source, or could be seasonal (or precipitation related).

#### 3.5 SOURCES OF CONTAMINATION

A list of proven and suspected sources is provided in this Section. Proven sources are documented by laboratory analysis of contaminated soils and product samples. Suspected sources are based on PID measurements and association with proven sources.

Five primary sources have been demonstrated to have caused a release of hazardous materials to the Site:

- Leaks from pipes at soil sample B5 by toluene concentration in soils.
- Tank #1 by PCE/TEX in soils and contents. No lid to tank.
- 3. Tanks 2 and 3 by Ethylbenzene, xylenes and PCE in soils and contents. Holes in tank lids.
- 4. Capped pipes 1, 2 and 3 by TEX in Soils (sample O1) (Pipe locations included in Appendix 1).
- 5. Pipes I & J PID 19.5/7 Pipe sample and B3 soil sample confirms release of PCE and TEX.

Suspected sources of additional releases are listed below:

- 1. Suspected UST near end of Pipes 1,2 and 3.
- 4" drain PID of 42 ppm.
- 3. Pipes A & K PID 42 ppm.
- 4. Pipe C PID 16 ppm.
- 5. Pipes F, G, & E 10 ppm.

## 3.6 CONCEPTUAL REMEDIAL DESIGN

Numerous remedial options were considered for this Site. Remediation of the Site at this time will concentrate on soils contaminated above regulatory guidelines. There are no documented enforcement standard exceedances beyond the property line which are attributable to the Foto-Hut Site. Therefore design of a groundwater treatment system should not occur at this time.

Soil remedial measures may be warranted due to the risk of contamination of groundwater from the residual levels of contamination in the soils. Soil contamination above Interim Soil Cleanup Guidance limits has been demonstrated in the vicinity of the removed USTs and under the un-used portion of the Foto-Hut building.

Vapor extraction and treatment can be an effective method of soil remediation. In-situ treatment would use vapor extraction with activated carbon adsorption on the vapor phase end of the system. Activated carbon which becomes saturated with contaminants removed from the soil vapors could then be "reactivated" or recycled, thus provided a "closed loop" remedial system with the added benefit of incineration for the final disposition of the collected contaminants. Vapor extraction is most effective with highly volatile compounds and permeable soils. The low permeability soils below the Foto-Hut site, combined with the shallow depth to groundwater, may limit the effectiveness of vapor extraction. Vapor extraction technology should be investigated further if additional data indicates that the soils below the southern portion are the Foto-Hut building are contaminated above regulatory guidelines.

Natural or enhanced biodegradation is sometimes used for in-situ treatment of contaminated soils. However, biodegradation of PCE often creates daughter products which are lethal to the degrading organisms. In addition, enhancement of biodegradation requires "feeding" of the degrading organisms. This feeding requires injection and adequate dispersal of nutrients into the soil. Adequate dispersal of the nutrients is not likely given the low permeability of the soils on-site.

Removal of contaminated soils by excavation, and transport off-site for disposal appears to be the most feasible option for soils remediation. Air quality standards could be maintained during removal by adequate ventilation of the existing un-used Foto-Hut building. Treatment of the collected vapors by carbon absorption may be necessary. The removal could coincide with excavations of contaminated piping and suspected USTs. It may be feasible to dispose of the excavated soils at an asphalt batch plant. Otherwise, soil disposal will be in a certified landfill. It may be necessary to install slurry walls to contain inaccessible pockets of residual contamination.

In conjunction with soil removal, we recommend the placement of a barrier against physical contact and infiltration. This would consist of backfilling and paving the areas from which contaminated soils were removed. Demolition of the un-used portion of the building and paving the area could be performed by non-OSHA trained personnel after the soil excavation was complete.

# 4.0 RESULTS, CONCLUSIONS, AND INTERPRETATIONS

Most of the interpretations in this report should be treated as current working hypothesis, which will be confirmed based on data collected during the detailed remedial investigation and action design.

Groundwater flow in the surficial aquifer is towards the south and southeast. Groundwater flow directions and gradients are strongly influenced by infiltration in un-paved areas. The vertical gradient in the surficial aquifer is downwards.

Soils are typically low permeability sands with a large percentage of silt and gravel. Numerous preferential migration pathways may exist. These pathways may include the storm drain system and process pipes below the concrete floor of the building.

Five contaminant release sources have been confirmed at the Site. These source locations include three former USTs and two pipe locations. A large proportion, if not all of the contaminated soils and

groundwater on-site is due to releases from the USTs and their associated piping. Observations of NAPL collected in tanks indicate that it is less dense than water.

Based on the data provided by the International Fabric Care Institute, and on the geometry of the USTs and piping, the remedial costs associated with this site are eligible for reimbursement through the Vermont Petroleum Cleanup Fund (PCF). The dry cleaning operation was primarily a petroleum based technology. Perchloroethylene was probably only used for cleansing spots, and is a contaminant, rather than a primary constituent of the tank and pipe contents. VSA Title 10, Chapter 59, §1922(10) defines an underground storage tank. This definition states that the underground pipes connected to the tanks are included in as part of the UST. VSA Title 10, Chapter 59, §1926 authorizes reimbursement of abandoned UST closure under certain conditions. These conditions have been met, as documented in Charles Schwer's October 28, 1991 letter to Michael Pottinger of The Johnson Company. All tank removal, and sludge and soil disposal actions have been pre-approved by the Sites Management Section (SMS), and are eligible for reimbursement by the PCF. This investigation and its associated work plan were also approved by the SMS and are eligible for reimbursement.

The groundwater is locally contaminated at wells MW-8 and OB-1 above enforcement standards by xylenes and 1,2-dichloroethylene. There is no evidence that enforcement standards have been exceeded beyond the property line due to releases on-site.

The soils are contaminated above Vermont Interim Soil Cleanup Guidance (VISCG) limits by ethylbenzene, xylenes, perchlorethylene, and probably 1,2-dichloroethylene. With the exception of the xylenes, this contamination above the ISCG limits is only in the vicinity of the former USTs and the western section of the Foto-Hut building. Toluene is also present in the soils at relatively low concentrations.

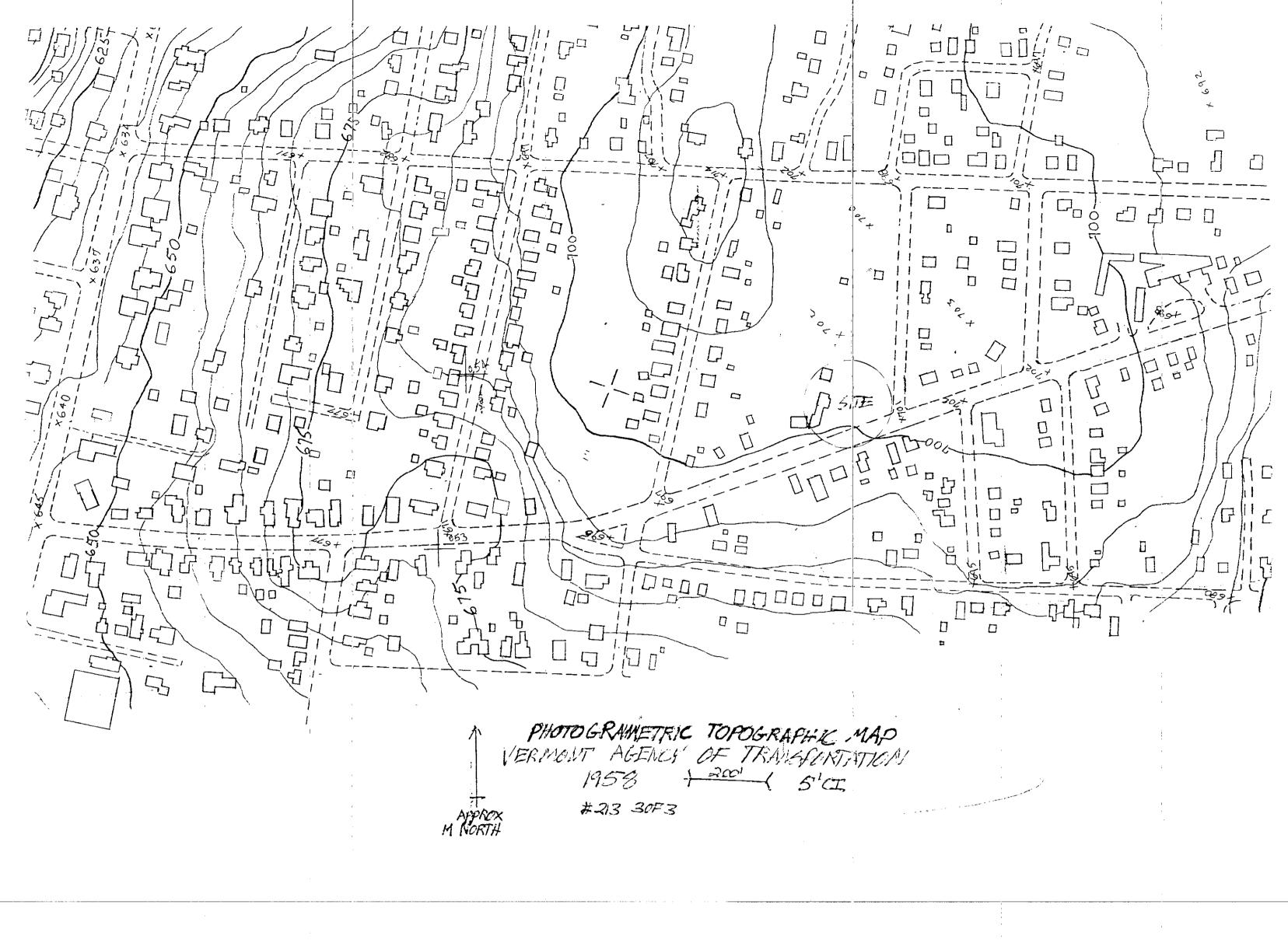
High benzene and MTBE concentrations in groundwater at the Eddy Site, and the lack of these compounds at the Foto-Hut Site indicate that the Foto-Hut Site is not the source of the contamination below the Eddy Site. The two Sites exhibit different chemical signatures. Xylene in groundwater at the Eddy Site is always associated with MTBE and Benzene, which are not found at the Foto-Hut Site. Very low concentrations, 1 ppb of 1,2 DCE, and 2 ppb of PCE were measured in water samples from MW-102 on the Eddy Site. These compounds are probably due to a nearby source, rather than the Foto-Hut Site. Monitoring wells MW-7 and MW-103 are both between known Foto-Hut sources and well MW-102. A water sample collected from MW-7 is clean, and samples from MW-103 did not have detectable levels of

#### PCE or 1,2 DCE.

The Johnson Company recommends preparation of a remedial investigation and design work plan. The work plan should include the following tasks:

- Determine temporal changes in water quality by monitoring groundwater and storm drains
  quarterly for at least one year. Laboratory analysis should be by EPA Method 8240 with 5 ppb
  detection limits.
- Determine extent of xylene contamination in soils and groundwater by the installation of additional wells, and collection of additional soils samples.
- Evaluate suspected sources by removal of interior pipes with concurrent soil analysis by PID.
- Evaluate suspected UST locations by excavation.
- Remove contaminated soils below and west of un-used portion of Foto-Hut building and treat offsite. West of location
- Evaluate in-situ soil venting below used portion of Foto-Hut building if soils sample analysis
  indicates exceedances of VISCG limits.
- Demolish un-used portion of Foto-Hut building and pave former UST and building locations to prevent infiltration and physical contact with residual contamination.
- Interview previous employees of Rutland Cleaners and Dyers

# APPENDIX A Property Ownership Records



77 WOODSTOCK AVE TOWN AND CITY PROPERTY OWNERSHIP RECORDS							
воок	PAGE	DATE	TRANSFER NOTES				
189	501-503	10-14-76	Rutland Savings Bank to The Daniels Corp.				
188	149	10-14-76	First VT Bank to Rutland Savings Bank (A parcel of land on NW corner, Woodstock Ave. and Tremont)				
176	410-411	12-16-74	Bratco, Inc. to First Vermont Bank & Trust Co.				
147	321	5-15-69	Saverio J. Garafano etal to Bratco Inc. (Lots 43,44,45,46 on Montvert Park), Saverio J. Garafano and Pasquale J. Garafano				
113	75	2-8-62	Register New Business - Garos Cleaning & Laundering Center (Cleaning & Laundering)				
131	339-340	6-2-60	Pasquale J. & Saurio S. Garofano to Rutland Housing Authority (Lots 47, 48 & 49 as shown on Map of Montvert Park) and land sold to Garafano's by Marie T. Pate				
112	320	6-2-60	Marie T. Pate to Garafano's (property bounds Briggs Autobody Shop) Lots 46 & 54 Montvert Park, etc. made by A.C. Grover, C.E.				
107	161	5-7-57	Guardian's Deed - Frank P. Garofano, guardian of Luigia Garafano to Pasquale & Saverio J. Garafano				

	TOWN AND	77 WOODSTOC	K AVE DWNERSHIP RECORDS
воок	PAGE	DATE	TRANSFER NOTES
99	454	6-16-55	Antonio & Luigia Garafano to Saverio J. & Pasquale J. Garafano - Property bounds south - Woodstock Ave. east - Tremont St., north land of Lonis M. Gagnon, west property of Frank E. Briggs and land of Marie T. Pate
55	290	7-17-31	Lease between Antonia Garofano & Shell Eastern Petroleum Corp 5 year lease - Begin 40 ft, west of Tremont & Woodstock (essentially appears on western corner of Woodstock & Tremont) Rent is 1 cent per gallon gasoline delivered to storage tanks on leased property.
45	143	7-12-26	Antonia, Ralph & Joseph Jennings to Antonia * Louise Garafano (Lots 47, 48, 49 - Lots 45,46 of Montvert Park)
36	306	11-20-19	Henry D. Whitney to Antonio Garofano (Lots 43 & 44 Montvert Park)
Hanging Map 215	37	8-15-13	Monvert Park Building Lots Aug. 1913 Harry D. Whitney Owner, The Foto Hut site appears to be Lots 43, 44, 45 and possibly 46

	TOWN A		VOODSTOCK AVE ROPERTY OWNERSHIP RECORDS
воок	PAGE	DATE	TRANSFER NOTES
286	341	6-30-89	Page 343 Mortgage Deed - Alan H. Perry & Ann Perry to John F. & Donna Haynes - Lots 3 & 4
151	573	5-8-70	Axel J. & Jane O. Anderson to Alan H. Perry & Ann Perry
90	1	9-17-49	Fred R. & Marjorie E. Hudson to Axel & Jane Anderson
73	395-396	1-10-46	Lot 3 & 4 of Harris Property Building Lots of H.D.  Whitney, October 1913 - Ward Baking Company to Fred R. Hudson, Parcel is a part of the land conveyed by Grace O. Brien to Vermont Banking Co. (9-10-41) Book 66, page 67 - subsequently granted from Vermont Baking to Ward Baking, Book 73, page 201
60	179	4-16-35 to 12-15-45	Land leased by Sinclair Refining Co.
73	201	6-7-45	Vermont Baking to Ward Baking - Lots 3 & 4
66	467	9-19-41	Grace O'Brien Coughlin to Vermont Baking Company - Lots 3 & 4 - Subject to a certain lease between Grace O'Brien Coughlin and Sinclair Refining Co.
60		4-16-35	Service Station Lease between Frederick E. Coughlin & Grace E. Coughlin of 82 Woodstock Avenue & Sinclair Refining Co Oil and gasoline station
52	431	7-6-33	Raffacl Abatiell to Frederick & Grace O'Brien - Lots 3 &
45	337	5-7-27	Lucy E. Alberico to Raffael Abatiell
36	309	12-13-19	Henry D. Whitney to Lucy F. Alberico

## 1991 JOHNSON CITY DIRECTORY US WEST MARKETING RESOURCES JOHNSON DIRECTORY DIVISION

DATE	ADDRESS	OCCUPANT
1991	75 Woodstock Ave	Park Antiques Sherwin Williams Foto Hut - also The Stitchery Brownsville Girl Shoe Repair Filippo Cleaners & Taylors H.A. Eddy Chittenden Bank Cinema North Group Couture & Co. Bob's Texaco
1987	75 Woodstock Ave.  77 Woodstock Ave.  84 Woodstock Ave.  86 Woodstock Ave.  87 Woodstock Ave.	Curious Eye World of Sweaters Park Antiques Foto Hut Automatic Laundry & Dry Cleaners Diamond Uniform Snow White Linens Eddy Niko's Restaurant US Post Office Chittenden Bank Cinema North Couture Co. Bob's Sunoco
1986	77 Woodstock Ave	Mannings Chittenden Bank
1985	77 Woodstock Ave	Mannings Same as 1987 Automatic Dry Cleaner H.A. Eddy Chittenden Bank Bob's Sunoco
1984	77 Woodstock Ave	Automatic Dry Cleaners H.A. Eddy Same as 1985

# 1991 JOHNSON CITY DIRECTORY US WEST MARKETING RESOURCES JOHNSON DIRECTORY DIVISION

DATE	ADDRESS	OCCUPANT
1983	75 Woodstock Ave	Brigg's Autobody Shop Grace A Land Office Automatic Dry Cleaners H.A. Eddy Rutland Bank Bob's Sunoco
1982	75 Woodstock Ave	Same Vacant Perry's Automatic Laundry & Dry Cleaners H.A. Eddy (Under Construction) Rutland Savings Bank, Real Estate Bob's Texaco
1981	75 Woodstock Ave	Same Same Same No Report Same Same
1980	Same except 86 Woodstock Ave. is a residence	
1979	Same	
1978	Same except 87 Woodstock Ave	Vacant
1977	Same except 77 Woodstock Ave	Vermont Cycle Residence and Vandy's Steak House
1976	Same except 93 Woodstock Ave	Tony's Texaco
1973-1974	75 Woodstock Ave	Automatic Dry Cleaning Center Smiley's Steak House
1972	75 Woodstock Ave	Vacant Same Residence and Vacant

#### 1991 JOHNSON CITY DIRECTORY US WEST MARKETING RESOURCES JOHNSON DIRECTORY DIVISION

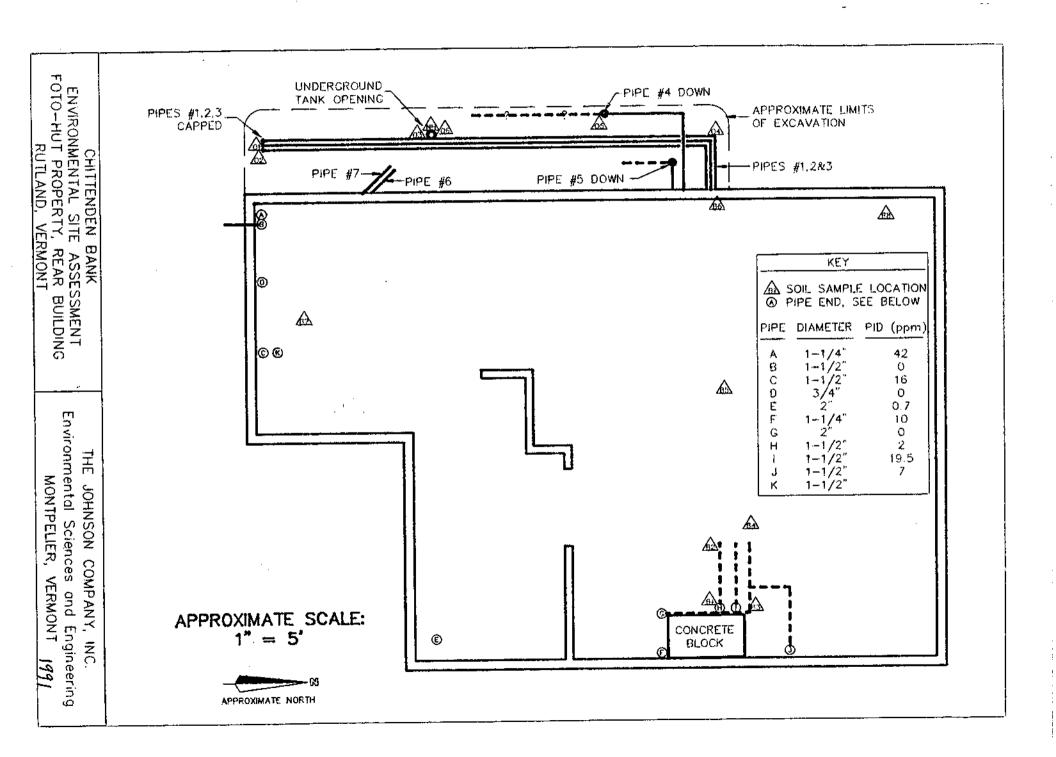
DATE	ADDRESS	OCCUPANT
1971	75 Woodstock Ave. 77 Woodstock Ave. 82 Woodstock Ave. 84 Woodstock Ave. 86 Woodstock Ave. 93 Woodstock Ave.	Same Not Listed Automatic Laundry & Dry Cleaners Automatic Laundry Vincent's Restaurant Same
1970	75 Woodstock Ave. 77 Woodstock Ave. 82 Woodstock Ave. 84 Woodstock Ave. 86 Woodstock Ave. 93 Woodstock Ave.	Same Rutland Cleaners & Dyers Dry Cleaning Center Three-D Chemical Co. Automatic Laundry Restaurant Ben's Texaco
1968	75 Woodstock Ave	Same Same Same United Chemical Co. Automatic Laundry Same Same
1966	Same except 86 Woodstock Ave	No restaurant
1964	Same	
1961	Same except 77 Woodstock Ave	Rutland Cleaners & Dyers Plant Restaurant Johnson's Texaco
1960 & 1958	75 Woodstock Ave	Briggs Autobody Rutland Cleaners & Dyers Plant Rutland Upholsteries United Chemical Automatic Laundry Restaurant Fletcher's Texaco
1955	75 Woodstock Ave	Same Same Non Hazardous Same Restaurant Same
1951	Same except 86 Woodstock Ave	No restaurant

#### 1991 JOHNSON CITY DIRECTORY US WEST MARKETING RESOURCES JOHNSON DIRECTORY DIVISION

DATE	ADDRESS	OCCUPANT
1947	75 Woodstock Ave	Same Same Vacant & Frederick Hudson, Auto Electrician Residence Same
1944	75 Woodstock Ave	Same Same Vacant gas station Residence Dept. of Justice Immigration, Naturalization
1942	75 Woodstock Ave	Same Same Same Same Texaco Service Station
1940	75 Woodstock Ave	Not Listed Same Sinclair Service Station Same Texaco Station
1937	77 Woodstock Ave	Same Sinclair Service Station Residence Rutland Cleaners & Dyers Not listed
1936	77 Woodstock Ave	Rutland Cleaners & Dyers Plant Rutland Cleaners & Dyers
1935	77 Woodstock Ave	Same Residence Woodstock Ave. Filling Station Not Listed
1933	77 Woodstock Ave	Same Same
1936	84 Woodstock Ave	Sinclair Service Station

#### 1991 JOHNSON CITY DIRECTORY US WEST MARKETING RESOURCES JOHNSON DIRECTORY DIVISION

DATE	ADDRESS	OCCUPANT
1934	77 Woodstock Ave	Same No Listing Same Vacant No Listing
1930	77 Woodstock Ave	Rutland Cleaners No Listing No Listing Same No Listing Residence
1928	All same, 93 now 97 Woodstock Ave.	
1927	No 77, 82, 84 87 Woodstock Ave. 86 - same	
1924	Same	
1919	Same	



ł

### APPENDIX B

Well Logs

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpeller, Vermont 05502

DRILLING LOG WELL # PZ-1

Project: Fatabut Property Location: Rutland, Vermont Job # 1-0342-2 Logged By: DMM/LRH Date Defield: 31/05/03 Date Drilled: 11/05/93 Oriller: The Johnson Company Orill Method: 4" Solid Stem Auger Casing Type: PVC Total Pipe: 5.9 ft.
Casing Diameter: 1.5 in.
Casing Length: 4.9 ft.
Screen Type: Factory slotted
Screen Diameter: 1.5 in.
Screen Length: 0.9 ft.
Slot Size: .010

Total Pipe: 5.9 ft.
Stick Up: 0.0 ft.
Well Guard Length: 0.0 ft.
Initial Water Level: None
Surface Elevation: —
T.O.C. Elevation: —

Total Pipe: 5.9 ft. Stick Up: 0.0 ft. Total Hole Depth: 5.9 ft.

Sheet 1 of 0

= Sampled inter	rvai		_	Sheet 1 of 0
Well Construction	Notes	GE 5.087	PID Recaining	Description
5 - 4.5 - 4				
-3.5 -3 -2.5				
2 - 1.5 - 1				
0.5	-Well cap (locked) Sockfill			0-1': loam
2.5	Hydrated Bentonite		4.5 ppm	1'-5': dark brown silty sand with some pet-bles.
-3.5 -4.5 	Sand Pack		2.5 avg.	At 5': light brown sand and silt, damp. 5.5'-5': mottles. PID readings: At 5.0'=2.0 ppm, 4: 5.2'=3.2 ppm.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

DRILLING LOG WELL # OB-1

Project: Chittenden Bank-Fotohut
Lacation: 77A Woodstock, Rutland Vt
Job # 1-0342-2
Lacation: 77A Woodstock, Rutland Vt
Lacation: 77A Woodstock, Rutland Vt
Lacation: 77A Woodstock, Rutland Vt
Casing Diameter: 2.0 in.
Casing Length: 8.0 ft.
Screen Type: Factory slotted
Date Drilled: 3/12/92
Driller: N/A
Drill Method: Excavator

Casing Type: PVC
Casing Diameter: 2.0 in.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 5.0 ft.
Surface Elevation: 690.25
T.O.C. Elevation: 692.25

= Sampled Interval			Sheet 1 of 1
Well Construction Notes	Gedicay	PID Reading	Description
5			Grey fine sand some silt, cobbles, bricks, pebbles. Fill  Light grey saturated medium and fine sand, little silt, few subangular pebbles.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

DRILLING LOG WELL # MW-1

Project: Fotohut

Location: 77A Woodstock, Rutland Job # 1-0342-2 Logged By: D. Maynard Date Drilled: 9/30/93 Driller: Tristate

Drill Method: Hollow Stem

Casing Type: PVC Casing Diameter: 2.0 in. Casing Diameter. 2.0 iii.
Casing Length: 10.8 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 4.8 ft.
Slot Size: .010"

Total Pipe: 15.8 ft. Stick Up: -0.2 ft. Total Hole Depth: 16.0 ft. Well Guard Length: 0.0 ft. Initial Water Level: 5.7 ft. Surface Elevation: 689.90 T.O.C. Elevation: 689.70

#### ■ Sampled Interval

Sheet 1 of 1

=	Sampled Inter	rvai			Sheet 1 of 1
Sign	Well Construction	Notes	Cecyody	PID Reading	Description
5 - 4 - 3 - 2					
- ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		— Cement		0.4	0-3' off auger blades. Grey humid fine sand, some silt, little subangular pebbles.
3 - 4 - 5		<u> </u>		0.6	3-4' 4,15, refusal. 12" recovery. Light brown humid fine sand, some silt, trace subangular gravel, organics. Concrete in tip.
8 9		Bentonite		1.0	6.7-8.7' 5,6,9,8 9" recovery. Light brown humid silt and fine sand, little angular pebbles. Many medium prominant orange/grey mottle
- 10 - 11 - 11				1.7	9-11' 5,6,9,11 17" recovery. Light brown damp fine sand, some silt, engular gravel. Common medium distinct orange/grey mottles Hard drilling, 11-11.5'
- 13 - 14 - 14		Sand Pack Screen		20	11.5-13.5' 9,19,19,34 18" recovery Light brown moist fine sand, some silt, little angular gravel. Few medium distinct orange mottles.
- 15 - 16 - 17					13.5-15.5' 17,33,32,35 19" recovery Light brown wet fine sand, some silt, little angular gravel. No preferential orientation.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpeller, Vermont 05502

### DRILLING LOG WELL # MW-2

Project: Fotohut

Location: 77A Woodstock, Rutland Job # 1-0342-2

Logged By: D. Maynard Date Drilled: 9/30/93 Driller: Tristate

Drill Method: Hollow Stem

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 4.6 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 4.6 ft.
Screen Length: 4.6 ft.
Slot Size: .010"

Total Pipe: 9.3 ft.
Stick Up: -0.5 ft.
Total Pipe: 9.3 ft.
Stick Up: -0.5 ft.
Slot Size: -0.10 in.
Stick Up: -0.5 ft.
Total Pipe: 9.3 ft.
Total Pipe: 9.3 ft.
Stick Up: -0.5 ft.
Total Pipe: 9.3 ft.
Total

Shoot 1

= Sampled Inter	rval	_		Sheet 1 of 1
Well Construction	Notes	Geology	PID Reading	Description
5	— Cement  — Bentonite  — Sand Pack — Screen		1.8 1.8 2.2 26	0-3' off auger flights. Dark brown humid fine sand, some silt, organics. Hard drilling 2-3'.  3-5' 3,1,1,5 22" recovery. 0-6" Light brown damp coarse and medium sand grading down to fine and medium sand. Sharp horizontal contacts and many distinct fine orange mottles.  6-18" Black damp silt, little fine sand, many prominant fine orange mottles.  6-18" Light brown moist fine sand, some silt, Many fine distinct orange mottles.  5-7' 5,11,18,30 12" recovery. Light brown fine sand, some silt, angular pebbles. Moist at top and humid at base. Few faint fine orange/alive mottles. Rocky drilling 6-7'  7-9' 9,8,10.5 14" recovery. Light grey saturated fine sand, little site, angular gravel. Plack stains in upper 6". PID 90ppm in hale. Auger tip at 9.75' same as above.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

### DRILLING LOG WELL # MW-3

Project: Fotohut

Location: 77A Woodstock, Rutland Job # 1-0342-2 Logged By: D. Maynard Date Drilled: 9/30/93 Driller: Tristate

Drill Method: Hollow Stem

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 4.7 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 4.8 ft.
Slot Size: .010"

Total Pipe: 9.7 ft. Stick Up: -0.2 ft. Total Hole Depth: 9.8 ft. Well Guard Length: 0.0 ft. Initial Water Level: 5.6 ft. Surface Elevation: 689.59 T.O.C. Elevation: 689.44

Sheet 1 of 1

= 1	Sampled Interv	val			Sheet 1 of 1
6.00 5.00 5.00 5.00	Well Construction	Notes	Geglogy	PID Reading	Description
1		Cement Bentonite Sand Pack Screen		2.0 70 115 25	0-3' off auger flights. Black humid fine sand, some silt, organics, little angular gravel. Hard drilling 3-3.5'.  3.5-5.5' 1,4,6,13 20" recovery. 0-6" Black humid fine sand some silt, organics. Sharp horz.contact 6-20" Light brown humid silt and fine sand. Worm burrows. Many large distinct grey mottles. Gravel in tip. 6-8' 7,7,11,5 14" recovery. Light grey wet fine sand, some silt, angular gravel. Many large prominant brown/grey mottles. Slight Perc. ador. Rocky drilling 7-7.5'. 8-10' 3,4,5,7 16" recovery. Light grey saturated fines sand, some silt, angular gravel.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

### DRILLING LOG WELL # MW-4

Project: Fotohut Location: 77A Woodstock, Rutland Job # 1-0342-2 Logged By: D. Maynard Date Drilled: 10/01/93 Driller: Tristate

Drill Method: Hollow stem

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 4.3 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 9.7 ft.
Slot Size: .010"

Total Pipe: 14.1 ft. Stick Up: -0.5 ft. Total Hole Depth: 14.6 ft. Well Guard Length: 0.0 ft. Initial Water Level: 5.0 ft. Surface Elevation: 689.87 T.O.C. Elevation: 689.37

Well Notes Good Reading Description	
Construction Notes Go Reading	
O-3' off auger flights. O-2' Black damp fine sand 2-3' Light brown damp fine siit.  2.2 3-5' 5,5,6,5 16" recovery. Light brown wet fine sand c silt. Faint horizontal 0.25" bands. Common fine promi motaltes.  1.2 5-7' 3,3,2,5 24" recovery. Light brown saturated fine silt, some angular gravel. N preferential orientation. 7-9' 6,9,11,11 18" recovery. Light brown humid fine sand silt, some angular gravel. N preferential orientation.  1.6 12-14' 9,11,12,15 5" recovery. Light brown saturated fine little silt, subangular gravel. R drilling 7-12'.  7.7 14.5-16.5' 9,12,15,26 16" O-2" Light brown sat. suba gravel. Gradational contact. 2-4" Light brown sat. suba gravel. Sharp horz. coar and gravel, fining downwar.	and inont black sand and lor y, d and locky very, pped out, sand, . No recovery angular rse sand ntact, e sand,

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

DRILLING LOG WELL # MW-5

Project: Fatchut
Location: 77A Woodstock, Rutland
Job # 1-0342-2
Logged By: D. Maynard
Date Drilled: 10/01/93

Driller: Tristate

Drill Method: Hollow stem

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 3.8 ft.
Screen Type: Foctory slotted
Screen Diameter: 2.0 in.
Screen Length: 4.6 ft.
Slot Size: .010"

Total Pipe: 8.5 ft.
Stick Up: -0.5 ft.
Total Pipe: 8.5 ft.
Stick Up: -0.5 ft.
Well Guard Length: 0.0 ft.
Initial Water Level: 7.4 ft.
Surface Elevation: 688.05

Chast 1

= Sampled Inter	·val			Sheet 1 of 1
Well Construction	Notes	Geology	PID Reading	Description
5	— Cement  — Bentonite  — Sand Pack —  — Screen		2.2 130 150	0-3' off auger flights 0-0.4' asphalt 0.4-3' Brown dry medium and coarse sand and gravel, little silt.  3-5' 1,2,2,5 19" recovery. Block shiny damp silt and fine sand, trace subangular gravel. Slight perc. odor.  5-7' 1,4,7,6 18" recovery. 0-8" Black humid. 8-10" Light grey humid. 10-18" Light brown humid fine sand and silt, trace angular gravel. Lowest 0.25' is wet.  7-9' 3,2,5,4 4" recovery. Light brown fine sand and silt, trace gravel. Strong perc. odor. PID of 190 ppm from auger tip at 9'.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpeller, Vermont 05802

DRILLING LOG WELL # MW-6

Project: Fotohut

Location: 77A Woodstock, Rutland

Job # 1-0342-2 Logged By. D. Maynord Date Drilled: 10/01/93 Driller: Tristate

Drill Method: Hollow stem

Casing Type:
Casing Diameter:
Casing Length:
Screen Type:
Screen Diameter:
Screen Length:
Slot Size: Slot Size:

Total Pipe: 0.0 ft. Stick Up: 0.0 ft. Total Hole Depth: 4.5 ft. Well Guard Length: 0.0 ft. Initial Water Level: 4.7 ft.

Surface Elevation: 688.48 T.O.C. Elevation: N/A

Shoot 1

= Sampled Interv	val			Sheet 1 of 1
Well Construction	Notes	Gedlogy	PID Reading	Description
5				
4.5				·
4				
3.5				
- 2.5				
2.5				
1.5				
1				
0.5				
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		0-3' from auger flights.
0.5	— Cement			0-0.4' asphalt.
				gravel.  1.5-3' Block shiny humid fine sond
1.5			4.0	and subangular gravel.
2				:
2.5	— Bentonite			
3				3-5' 2,2,6,26 14" recovery.
-3.5				0.2' Brown dry coarse sand (spoil). 0.2-14" Black humid fine sand, som
- 4			250	silt. Wet in lower 0.3'. Strong perc. odor. Refusat on hollow
4.5	<u> </u>			metallic object at 4.5°.
- 5 -		121212		,
-5.5 -				
- 6] 				

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

DRILLING LOG WELL # MW-7

Project: Fotohut Location: 77A Woodstock, Rutland Job # 1-0342-2 Logged By. D. Maynard Date Drilled: 10/01/93 Driller: Tristate

Drill Method: Hollow stem

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 3.6 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 4.6 ft.
Slot Size: .010"

Total Pipe: 8.4 ft.
Stick Up: -0.6 ft.
Total Hole Depth: 9.0 ft.
Well Guard Length: 0.7 ft.
Initial Water Level: 6.3 ft.
Surface Elevation: 682.51
T.O.C. Elevation: 687.95

= Sampled Inter	val			Sheet 1 of 1
Well Construction	Notes	Cedioay	PID Reading	Description
- 5	— Cement — Bentonite — Sand Pack — Screen — ∑		0.8 0.6 0.4	0-3' from auger flights. 0-0.4' asphalt. 0.4-3' Brown humid fine sand and gravel, little silt.  3-5' 2,1,3,5 18" recovery. 0-6" Dark brown damp fine sand and silt. 6-18" Light brown wet fine sand and silt. Many fine distinct arange mottles.  5-7' 3,5,7,21 18" recovery. Light brown moist fine sand and silt, little subangular gravel, pebbles. Common faint large grey mottles.  7-9' 9,12,16,12 16" recovery. Light brown moist to wet fine sand and silt, little subangular gravel. No preferential orientation. Common distinct large grey mottles.

The Johnson Company, Inc. Environmental Sciences and Engineering 5 State Street Montpelier, Vermont 05602

### DRILLING LOG WELL # MW-8

Project: Chittenden Bank-Fotohut Lacation: 77A Woodstock, Rutland Vt Job # 1-0342-2

Logged By: E. Hanson Date Drilled: 10/11/93

Driller: JCO

Drill Method: Solid Stem Auger

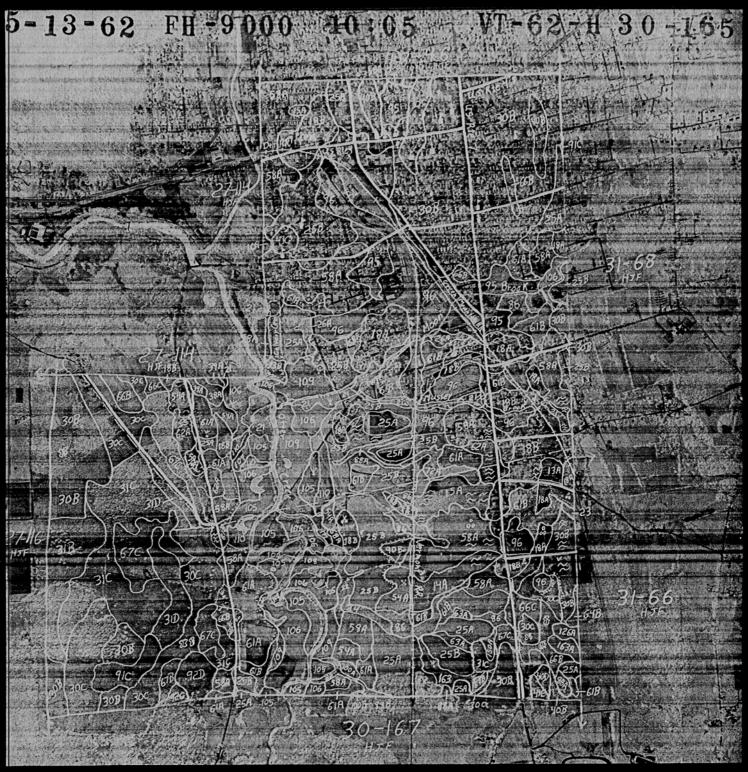
Casing Type: PVC
Casing Diameter: 1.5 in.
Casing Length: 4.9 ft.
Screen Type: Factory slotted
Screen Diameter: 1.5 in.
Screen Length: 4.6 ft.
Slot Size: 0.010

Total Pipe: 9.7 ft. Stick Up: 1.9 ft. Total Hole Depth: 8.0 ft. Well Guard Length: 0.0 ft. Initial Water Level: 5.5 ft. Surface Elevation: 686.43 T.O.C. Elevation: 690.31

Sheet	•	٥f	4
Sheet	1	ΔΤ	П

] =	Sampled Inter	val			Sheet 1 of 1
Gelser J	Well Construction	Notes	Gedlogy	PID Reading	Description
- 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		— Bentonite  — Sand Pack — Screen		250 250	Dark grey damp silt and sand, little gravel, pebbles.  Grey, damp to wet, fine sand some silt, little gravel, pebbles.  Olive grey, wet to saturated silt and fine sand, little gravel, pebbles. Large stone at 8'.

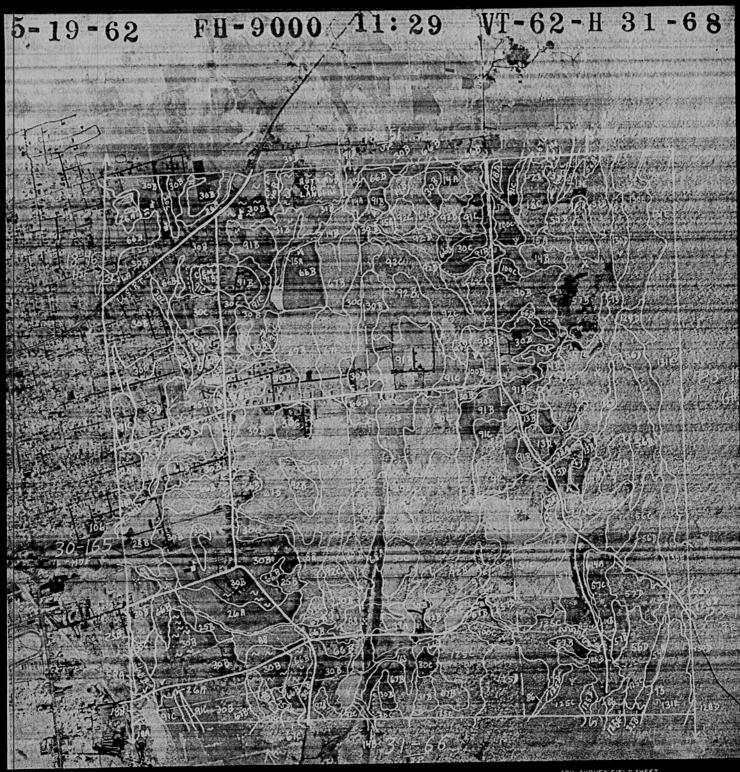
# APPENDIX C SCS Soil Maps



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COOPERATING WITH STATE AGRICULTURAL EXPERIMENT STATION

APPROX, SCALE 1 = 1500.

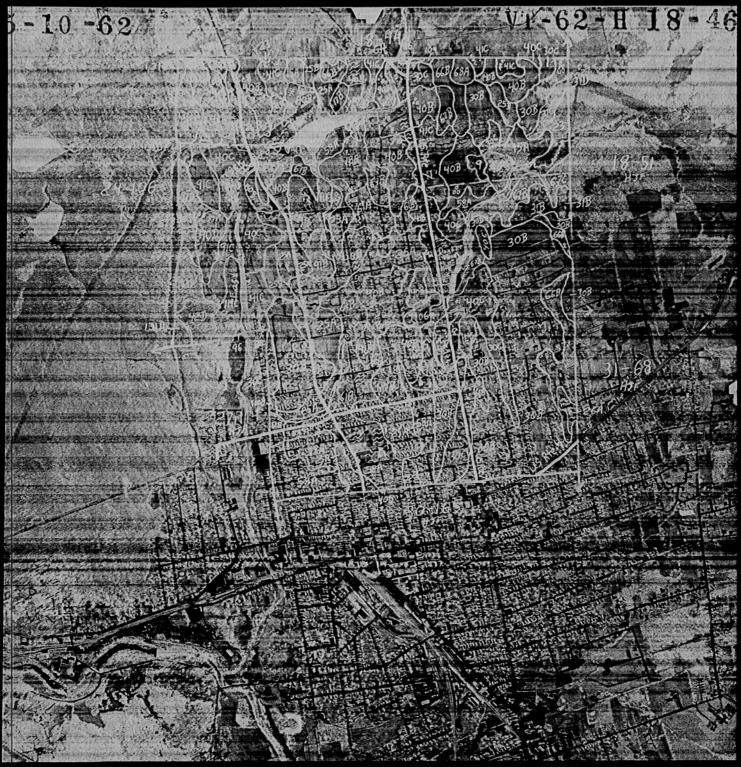
RUTLAND COUNTY, VERMONT ADVANCE COPY SUBJECT TO CHANGE



U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATION

APPROX. SCALE I" = 1500'

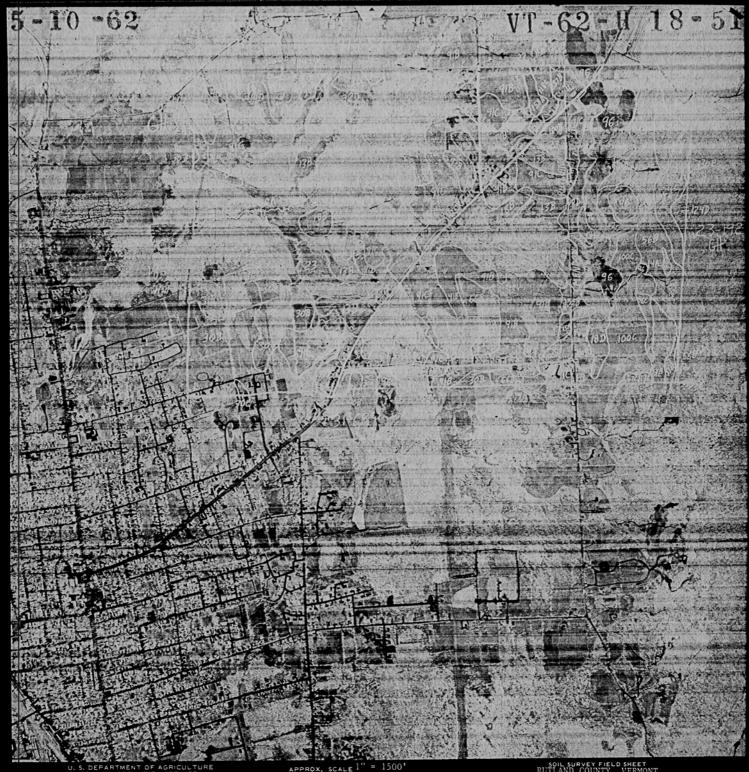
SOIL SURVEY FIELD SHEET
RUTLAND COUNTY, VERMONT
ADVANCE COPY - SUBJECT TO CHANGE



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



SOIL SURVEY FIELD SHEET RUTLAND COUNTY, VERMONT ADVANCE COPY - SUBJECT TO CHANGE



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COOPERATING WITH STATE AGRICULTURAL EXPERIMENT STATION

USDA SCS FORT WORTH TEXAS

RUTLAND COUNTY, VERMONT
ADVANCE COPY SUBJECT TO CHANGE

#### SOIL SURVEY IDENTIFICATION LEGEND RUTLAND COUNTY, VERNORT NOVEMBER 1984

Happing	
Symbol	Field Mapping Unit Name
, JB .	Marlow fine sandy loam, 3 to 8 percent slopes
10	Marlow fine sandy loam, 8 to 15 percent slopes
10	Marlow fine sandy loam, 15 to 25 percent slopes
12	Combined with 10
. <b>28</b> /	Combined with 48
2C	Marlow fine sandy loam, 8 to 15 percent slopes, very stony
20.	Marlow fine sandy loam, 15 to 35 percent slopes, very stony
25.	Marlow fine sandy loam, 35 to 60 percent slopes, very stony
37	Combined with 38
38	Peru gravelly fine sandy loam, 3 to $\theta$ percent slopes
3C	Peru gravelly fine sandy loam, 8 to 15 percent slopes
43.	Combined with 4B
4B	Peru gravelly fine sandy loam, 3 to 8 percent slopes, very stony
4C	Peru gravelly fine sandy loam, 8 to 15 percent slopes, very stony
4D	Peru gravelly fine sandy loam, 15 to 25 percent slopes, very stony
53.	Combined with 6A
SB	Combined with 6A
6A	Cabot gravelly fine sandy loam, 0 to 8 percent slopes, very stony
68	Combined with 6A
6C .	Brayton loam, 8 to 15 percent slopes, very stony
7A	Combined with 152 or 150A
BA	Combined with 152 or 150A
9	Pits-Dumps Complex
10C	Combined with 1310

Happing Symbol	Pield Mapping Unit Name
100	Combined with 1310
10E	Combined with 131E
11	Combined with 11C or 11E
110	Taconic-Hubbardton complex, 8 to 25 percent slopes, very rocky -
110	Combined with 11C
112	Taconic-Hubbardton-Hacomber complex, 35 to 80 percent slopes, very rucky
120	Combined with 1300
126	Combined with 1308
13A	Combined with 138
138	Hinckley gravelly loamy fine sand, 0 to 8 percent slopes
130	Hinckley gravelly losery fine sand, 8 to 15 percent slopes
130	Hinckley gravelly lossy fine sand, 15 to 25 percent slopes
13E	Hinckley gravelly loamy fine sand, 25 to 40 percent slopes
143	Sudbury fine sandy loam, 0 to 3 percent slopes
148	Sudbury fine sandy loam, 3 to 8 percent slopes
1SA	Helpole fine sandy loam, 0 to 5 percent slopes
16B	Combined with 1308
16C	Combined with 130C
760	Combined with 1300
16E	Combined with 1302
17A	Combined with 188
17B	Combined with 18B
17C	Combined with 180
18A	Combined with 188
18B	Windsor loamy sand, 3 to 8 percent slopes
18C	Windsor loamy sand, 8 to 15 percent slopes

,

Mapping Symbol	Pield Mapping Onit Name
<b>400</b>	Galway-Nellis-Farmington silt loams, 15 to 25 percent slopes, rocky
41B	Combined with 41C
41C	Parmington-Calway-Caloo silt loams, 5 to 25 percent slopes, very rocky
41D	Combined with 41C
41E	Parmington-Galway-Galoo silt loams, 25 to 50 percent slopes, very rocky
42B	Macomber-Dutchess complex, 3 to 8 percent slopes
42C	Macomber-Taconic complex, 8 to 15 percent slopes, rocky
420	Hacomber-Taconic complex, 15 to 25 percent slopes, rocky
42E	Maccomber-Tacconic complex, 25 to 80 percent slopes, rocky
43B	Combined with 43C
43C	Tacconic-Hacomber complex, 8 to 25 percent slopes, very rocky
430	Combined with 43C
43E	Combined with 112
44B	Dutchese silt loam, 3 to 8 percent slopes
44C	Dutchess silt loam, 8 to 15 percent slopes
44D	Dutchess silt losm, 15 to 25 percent slopes
45B	Combined with 148B
45C	Combined with 148C
45D	Combined with 148D
46B	Combined with 1498
46C	Combined with 149C
46D	Combined with 1490
46E	Combined with 149E
4 B	Dutchess silt loam, 3 to 8 percent slopes, very stony
	Dutchess silt loam, 8 to 15 percent slopes, very stony
4 20	Dutchess silt loam, 15 to 25 percent slopes, very stony

		· · · · · · · · · · · · · · · · · · ·
•	Mapping Symbol	Field Mapping Unit Name
	47E	Dutchess silt loam, 25 to 60 percent slopes, very stony
•	48 <b>X</b>	Combined with 1488
	488	Combined with 1488
	48C	Combined with 148C
٠	48D	Combined with 1480
	498	Combined with 1498
	49C	Combined with 149C
	490	Combined with 1490
	49E	Combined with 1492
	50A ·	Massena silt loam, 0 to 8 percent slopes
	50B	Combined with 50%
	51A	Combined with 50A
	518	Combined with SOA
	52	Combined with 152
	52X	Combined with 1) 2
	53	Elvers silt loam
	54A	Ninigret fine sandy loam, 0 to 4 percent slopes
	SSA	Combined with 6A
	558	Combined with 6A
	56B	Colton-Duxbury complex, 2 to 8 percent slopes, very stony
	56C	Colton-Duxbury complex, 8 to 15 percent slopes, very stony
	56D	Colton-Durbury complex, 15 to 25 percent slopes, very stony
	56분	Colton-Duxbury complex, 25 to 50 percent slopes, very stony
	57B	Duxbury-Colton complex, 2 to 8 percent slopes
	57C	Colton-Duxbury complex, 8 to 15 percent slopes
	570	Colton—Duxbury complex, IS to 25 percent slopes

Mapping Symbol	Field Mapping Unit Name
78A	Combined with 110
79	Combined with 110
79A	Combined with 110
80A	Kingsbury silty clay loam, 0 to 3 percent slopes
808	Kingsbury silty clay loam, 3 to 8 percent slopes
81	Livingston silty clay loam
81A	Combined with #1
82A	Combined with 80A
828	Vergennes clay, 3 to 8 percent slopes
82C	Vergennes clay, 8 to 15 percent slopes
820	Vergennes clay, 15 to 25 percent slopes
82E	Vergennes clay, 25 to 50 percent slopes
93A	Combined with 61A
83B	Combined with 61B
83C .	Combined with 61B
830 (	Combined with 618
94X	Combined with 161A
84B	Combined with 1618
84C	Combined with 161B
85A	Combined with 62
86	Lin-cod ruck
86A	Combined with 86
87	Combined with 24
87A	Combined with 24
88	Birdsall muck
6BA	Combined with 88

	•
Mapping Symbol	Field Mapping Unit Name
90B	Hartland silt loam, 3 to 8 percent slopes
90C	Hartland silt losm, 8 to 15 percent slopes
900	Hartland silt loam, 15 to 25 percent slopes
90E	Combined with 900
91B	Combined with 30B
91C	Combined with 30C
910	Combined with 300
92B	Combined with 318
92C	Combined with 31C
920	Combined with 31D
92£	Combined with 312
94B	Combined with 148B
94C	Combined with 14BC
95	Udorthents, loamy
96	Udipsamments, nearly level
97A	Warvick-Quonset complex, 0 to 3 percent slopes
978	Warwick-Quonset complex, 3 to 8 percent slopes
97C	Warwick-Quanset complex, 8 to 15 percent slopes
970	Warwick-Quonset complex, 15 to 25 percent slopes
97E	Quonset-Harwick complex, 25 to 45 percent slopes
98C	Combined with 148C
980	Combined with 148D
998	Copake gravelly fine sandy loam, 2 to 8 percent slopes
99C	Combined with 13C
990	Combined with 13D
100A	Combined with 18B

Mapping Symbol	Field Mapping Unit Name	
1350	Mundal loam, 15 to 35 percent slopes, very stony	
135E	Hundal loam, 35 to 60 percent slopes, very stony	
1388	Combined with 18	
138C	Berkshire gravelly fine sandy loam, 8 to 15 percent slopes	
139B	Sunapee gravelly fine sandy loam, 3 to 8 percent slopes	
139C	Sunapee gravelly fine sandy loam, 8 to 15 percent slopes	
140C	Benson very channery loam, 3 to 15 percent slopes	
1400	Benson very channery loam, 15 to 25 percent slopes	
140E	Benson very channery loam, 25 to 50 percent slopes	
141C	Combined with 41C	
141E	Combined with 41E	
1429	Combined with 428	
142C	Combined with 42C	
142D	Combined with 420	
142E	Combined with 42E	
148B	Bomoseen and Pittstown soils, 2 to 8 percent slopes	
148C	Boroseen and Pittstown soils, 8 to 15 percent slopes	
148D	Bomoseen and Pittstown soils, 15 to 25 percent slopes	
149B	Bomoseen and Pittstown soils, 3 to 8 percent slopes, very stony	
1.49C	Bomoseen and Pittstown soils, 8 to 15 percent slopes, very stony	
1490	Bomoseen and Pittstown soils, 15 to 25 percent slopes, very stony	
149E	Bomoseen and Pittstown soils, 25 to 40 percent slopes, very stony	
150A	Peacham muck, 0 to 8 percent slopes	
152	Lyons silt loam	
158A	Combined with SBA .	
161A	Elmridge sandy loam, 0 to 3 percent slopes	

Mapping Symbol	Field Mapping Unit Name
161B	Elmridge sandy loam, 3 to 8 percent slopes
162A	Combined with 62
 1 63	Canandaigua silt loam
175	Wappinger silt loam
177	Pawling silt loam
179	Combined with 110
1808	Combined with 148B
180C	Combined with 148C
1800	Combined with 1480
1828	Combined with 1488
182C	Combined with 148C
1820	Combined with 1460
1838	Combined with 1498
183C	Combined with 1490
1830	Combined with 149D
183E	Combined with 149E
224B	Combined with 1238
224C	Combined with 123C
224D	Combined with 124D
2242	Combined with 1242

# APPENDIX D Analytical Results



# Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-10

Project: 1-0342-2(044), 77A Woodstock Sample: OB1
Report Date: 10/28/93 Type: Water
Collected: 10/12/93 Container: VOA

Received: 10/14/93

Analyzed: 10/26/93 Dilution
By: GMT Factor: 5

#### Priority Purgable Halocarbons

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	$\mathtt{BQL}$
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	. 1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1.	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



### Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-10

Project: 1-0342-2(044), 77A Woodstock Sample: OB1

#### Priority Purgable Aromatics

Number	Compound	PQL (ug/L)	Result (ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	60
32	Toluene	1	8
Other	TCL Compounds *		
33	Xylenes	. 1	560
34	Methyl-t-butylether	1	BQL
35	cis-1,2-Dichloroethene	1	61

#### Surrogate Standard Recovery:

1,4-Dichlorobutane	106	ቄ
1,4-Difluorobenzene	95	*

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.

Quantitation limit elevated due to sample dilution prior to analysis. Sample diluted due to high concentration of target compounds present.



### Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

POL

Result

J104-031-02 IEA ID: Client: Johnson Company Sample: MW 1 Project: 1-0342-2(044), 77A Woodstock Water 10/28/93 Type: Report Date: Container: VOA Collected: 10/12/93 10/14/93 Received: Dilution Analyzed: 10/26/93 1 Factor: GMT By:

#### Priority Purgable Halocarbons

		₽QL	Nesult
Number	Compound	(ug/L)	(ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	ı	BQL
5	Chlorobenzene	1	$\mathtt{BQL}$
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	$\mathtt{BQL}$
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane ·	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	$\mathtt{BQL}$
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	$\mathtt{BQL}$
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client: Project:	Johnson Company 1-0342-2(044), 77A Woodstock	IEA ID: Sample:	J104-031-02 MW 1
_	•	_	
Priority	Purgable Aromatics	PQL	Result
Number	Compound	(ug/L)	(ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	1	BQL
Other T	CCL Compounds *		
33	Xylenes	. 1	BQL
34	Methyl-t-butylether	1	BQL.
35	cis-1,2-Dichloroethene	1	BQĹ
Surrogat	ce Standard Recovery:		
	1,4-Dichlorobutane	9	)7 <b>%</b>
	1,4-Difluorobenzene	ç	8 %

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the

PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.



# Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

J104-031-03 IEA ID: Client: Johnson Company MW 2 1-0342-2(044), 77A Woodstock Sample: Project: Water Report Date: 10/28/93 Type: Container: VOA 10/12/93 Collected: Received: 10/14/93 Dilution 10/26/93 Analyzed: 1 Factor: GMTву:

### Priority Purgable Halocarbons

Number	Compound	(ug/L)	Result (ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	$\mathtt{BQL}$
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane ·	1	BQL
24	Tetrachloroethene	1 .	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	$\mathtt{BQL}$
29	Vinyl chloride	1	BÕŢ



# Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client: Project:	Johnson Company 1-0342-2(044), 77A Woodstock	IEA ID: Sample:	J104-031-03 MW 2
Priority	Purgable Aromatics	DOT	Result
Number	Compound	PQL (ug/L)	(ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	1	BÕŢ
Other 1	CCL Compounds *		
33	Xylenes	· 1	BQL
34	Methyl-t-butylether	1	BQ℃
35	cis-1,2-Dichloroethene	1	BQL
Surroga	te Standard Recovery:		
	1,4-Dichlorobutane	10	O %
	1,4-Difluorobenzene	9	7 ቄ

#### Comment:

BQL = Below Quantitation Limit
PQL = Practical Quantitation Limit
Quantitation limits for this sample are obtained by multiplying the
PQL by the dilution factor.
\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis
and QC for these parameters are laboratory derived.



# Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

J104-031-04 Client: Johnson Company IEA ID: 1-0342-2(044), 77A Woodstock Sample: MW 3 Project: Water Type: Report Date: 10/28/93 Container: VOA 10/12/93 Collected: Received: 10/14/93 Dilution Analyzed: 10/26/93 GMT Factor: By:

### Priority Purgable Halocarbons

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	$\mathtt{BQL}$
4	Carbon tetrachloride	1	$\mathtt{BQL}$
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	$\mathtt{BQL}$
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	٠ 1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-04
Project:	1-0342-2(044), 77A Woodstock	Sample:	MW 3
Priority	Purgable Aromatics		
	g	PQL	Result
Number	Compound	(ug/L)	(ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL.
32	Toluene	1	BQL
Other T	CL Compounds *		
33	Xylenes	. 1	BQL
34	Methyl-t-butylether	1	BQL
35	cis-1,2-Dichloroethene	1	BQL
Surrogat	e Standard Recovery:		
	1,4-Dichlorobutane	10	1 %
	1,4-Difluorobenzene	10	0 %

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the

PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.



## Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-09
Project: 1-0342-2(044), 77A Woodstock Sample: MW3 DUP
Report Date: 10/28/93 Type: Water
Collected: 10/12/93 Container: VOA

Received: 10/14/93

Analyzed: 10/26/93 Dilution
By: GMT Factor: 1

#### Priority Purgable Halocarbons

		PQL	Result
Number	Compound	(ug/L)	(ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	$\mathtt{BQL}$
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	ı	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



### Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client: Project:		IEA ID: Sample:	J104-031-09 MW3 DUP
Priority	y Purgable Aromatics		
		PQL	Result
Number	Compound	(ug/L)	(ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	1	BQL
Other 5	TCL Compounds *		
33	Xylenes	. 1	BQL
34	Methyl-t-butylether	1	BQL
35	cis-1,2-Dichloroethene	1	BQL
Surrogat	te Standard Recovery:		
	1,4-Dichlorobutane	10	3 %

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

1,4-Difluorobenzene

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.

103 %



## Analysis Report: EPA Method 8240 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-05 Project: 1-0342-2(044), 77A Woodstock Sample: MW 4 Report Date: 10/26/93 Type: Water 10/12/93 VOA Collected: Container: Received: 10/14/93 10/25/93 Analyzed: Dilution JAG Factor: 1 By:

#### Priority Pollutant Compounds

		PQL	Result
Number	Compound	(ug/L)	(ug/L)
1	Benzene	5	BQL
·· 2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
-18	1,2-Dichloroethene (Total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene .	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	$\mathtt{BQL}$
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	5
28	1,1,2-Trichloroethane	5	BQL
29	Trichloroethene	5	BQL
30	Trichlorofluoromethane	5	BQL
31	Vinyl chloride	10	BQL



## Analysis Report: EPA Method 8240 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-031-05

Project:

1-0342-2(044), 77A Woodstock Sample:

MW 4

Number	Compound	PQL (ug/L)	Result (ug/L)
Other To	CL Compounds:		
32	Acetone	100	BQL
33	2-Butanone	100	BQL
34	Carbon disulfide	5	BQL
35	1,2-Dibromoethane	5	BQL
36	2-Hexanone	50	BQL
37	Methyl-t-butylether	<sub>.</sub> 5	BQL
38	4-Methyl-2-pentanone	50	BQL
39	Styrene	5	BQL
40	Vinyl Acetate	50	BQL
41	Xylenes (Total)	5	BQL

## Surrogate Standard Recovery:

1,2-Dichloroethane-d4	110	€
Toluene-d8	102	8
Bromofluorobenzene	107	윰

#### Comments:

BQL = Below Quantitation Limit.

PQL = Practical Quantitation Limit.

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.



# Analysis Report: EPA Method 8240 (PAGE 1 OF 2 PAGES)

Client: Johnson Company J104-031-06 IEA ID: Project: 1-0342-2(044), 77A Woodstock Sample: MW 5 Report Date: 10/26/93 Type: Water Collected: 10/12/93 Container: VOA Received: 10/14/93 Analyzed: 10/19/93 Dilution By: JAG Factor: 2

#### Priority Pollutant Compounds

		PQL	Result
Number	Compound	(ug/L)	(ug/L)
1	Benzene	5	BQL
2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (Total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene ·	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	BQL
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	BQL
28	1,1,2-Trichloroethane	5	BQL
29	Trichloroethene	5	BQL
30	Trichlorofluoromethane	5	BQL
31	Vinyl chloride	10	BQL



## Analysis Report: EPA Method 8240 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-031-06

Project:

1-0342-2(044), 77A Woodstock Sample:

MW 5

Number	Compound	PQL (ug/L)	Result (ug/L)
Other To	CL Compounds:		
32	Acetone	100	BQL
33	2-Butanone	100	BQL
34	Carbon disulfide	5	BQL
35	1,2-Dibromoethane	5	BQL
36	2-Hexanone	50	BQL
37	Methyl-t-butylether	· 5	BQL
38	4-Methyl-2-pentanone	50	BQL
39	Styrene	5	BQL
40	Vinyl Acetate	50	BQL
41	Xylenes (Total)	5	BQL

#### Surrogate Standard Recovery:

1,2-Dichloroethane-d4	100 %	
Toluene-d8	108 %	
Bromofluorobenzene	110 %	

#### Comments:

BQL = Below Quantitation Limit.

PQL = Practical Quantitation Limit.

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

Quantitation limit elevated due to sample dilution prior to analysis. Sample diluted due to the presence of non-target compounds.



# Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-07

Project: 1-0342-2(044), 77A Woodstock Sample: MW 7
Report Date: 10/28/93 Type: Water
Collected: 10/12/93 Container: VOA

Received: 10/14/93

Analyzed: 10/26/93 Dilution
By: GMT Factor: 1

#### Priority Purgable Halocarbons

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BOL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	_ <b>1</b>	BQL
25	1,1,1-Trichloroethane	1	BQL.
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL

FORM 601/2cis Rev. 041493



## Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-07
Project:	1-0342-2(044), 77A Woodstock	Sample:	MW 7

## Priority Purgable Aromatics

Number	Compound	PQL (ug/L)	Result (ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	1	BQL
Other	TCL Compounds *		
33	Xylenes	1	BQL
34	Methyl-t-butylether	1	BQL
35	cis-1,2-Dichloroethene	1	BQL

#### Surrogate Standard Recovery:

1,4-Dichlorobutane	92	ક્ર
1,4-Difluorobenzene	93	용

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.

FORM 601/2cis Rev. 041493



# Analysis Report: EPA Method 8240 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-07 Project: 1-0342-2(044), 77A Woodstock Sample: MW 7 Report Date: 10/26/93 Water Type: Collected: 10/12/93 Container: VOA Received: 10/14/93 Analyzed: 10/19/93 Dilution By: JAG Factor: 1

## Priority Pollutant Compounds

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	5	BQL
2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	$\mathtt{BQL}$
18	1,2-Dichloroethene (Total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL.
22	Ethylbenzene .	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	BQL
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	BQL
28	1,1,2-Trichloroethane	5	$\mathtt{BQL}$
29	Trichloroethene	5	BQL
30	Trichlorofluoromethane	5	$\mathtt{BQL}$
31	Vinyl chloride	10	BQL



# Analysis Report: EPA Method 8240 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-07

Project: 1-0342-2(044), 77A Woodstock Sample: MW 7

Number	Compound	PQL (ug/L)	Result (ug/L)
Other TC	L Compounds:		
32	Acetone	100	BQL
33	2-Butanone	100	BQL
34	Carbon disulfide	5	BQL
35	1,2-Dibromoethane	5	BQL
36	2-Hexanone	50	BQL
37	Methyl-t-butylether	. 5	BQL
38	4-Methyl-2-pentanone	50	BQL
39	Styrene	5	$\mathtt{BQL}$
40	Vinyl Acetate	50	BQL
41	Xylenes (Total)	5	BQL

#### Surrogate Standard Recovery:

1,2-Dichloroethane-d4	100 %
Toluene-d8	109 %
Bromofluorobenzene	106 %

#### Comments:

BQL = Below Quantitation Limit.

PQL = Practical Quantitation Limit.

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.



# Analysis Report: EPA Method 8240 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-08 Project: 1-0342-2(044), 77A Woodstock Sample: B WM Report Date: 10/26/93 Type: Water Collected: 10/12/93 Container: VOA Received: 10/14/93 Analyzed: 10/19/93 Dilution By: JAG Factor: 20

#### Priority Pollutant Compounds

		PQL	Result
Number	Compound	(ug/L)	(ug/L)
1	Benzene	5	BQL
2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	$\mathtt{BQL}$
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (Total)	5	430
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	. 5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene .	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	BQL
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	$\mathtt{BQL}$
28	1,1,2-Trichloroethane	5	BQL
29	Trichloroethene	5	BQL
30	Trichlorofluoromethane	5	BQL
31	Vinyl chloride	10	BQL



## Analysis Report: EPA Method 8240 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-08			
Project:	1-0342-2(044), 77A Woodstock	Sample:	MW 8			

Number Compound (ug/L) Result (ug/L)

### Other TCL Compounds:

	_		
32	Acetone	100	BQL
33	2-Butanone	100	BQL
34	Carbon disulfide	5	BQL
35	1,2-Dibromoethane	5	BQL
36	2-Hexanone	50	BQL
37	Methyl-t-butylether	. 5	BQL,
38	4-Methyl-2-pentanone	50	BQL
39	Styrene	5	BQL
40	Vinyl Acetate	50	$\mathtt{BQL}$
41	Xylenes (Total)	5	620

#### Surrogate Standard Recovery:

1,2-Dichloroethane-d4	95 %	ŧ
Toluene-d8	109 9	ŧ
Bromofluorobenzene	111 9	ŧ

#### Comments:

BQL = Below Quantitation Limit.

PQL = Practical Quantitation Limit.

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

Quantitation limit elevated due to sample dilution prior to analysis.

Sample diluted due to the presence of non-target compounds.



# Analysis Report: EPA Methods 601/602 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-031-11 1-0342-2(044), 77A Woodstock Project: Sample: Field Blank Report Date: 10/28/93 Type: Water Collected: 10/12/93 Container: VOA Received: 10/14/93 Analyzed: 10/26/93 Dilution By: GMTFactor: ī

## Priority Purgable Halocarbons -

		PQL	Result
Number	Compound	(ug/L)	(ug/L)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	$\mathtt{BQL}$
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	$\mathtt{BQL}$
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL

FORM 601/2cis Rev. 041493



## Analysis Report: EPA Methods 601/602 (PAGE 2 OF 2 PAGES)

Client:	Johnson Company	IEA ID:	J104-031-11
Project:	1-0342-2(044), 77A Woodstock	Sample:	Field Blank

#### Priority Purgable Aromatics

Number	Compound	PQL (ug/L)	Result (ug/L)
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	1	BQL
Other	TCL Compounds *		
33	Xylenes	· 1	BQL
34	Methyl-t-butylether	1	BQL
35	cis-1,2-Dichloroethene	1	BQL

#### Surrogate Standard Recovery:

1,4-Dichlorobutane	87 %
1,4-Difluorobenzene	81, %

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

\* EPA Methods 601/602 do not specify other TCL compounds. Method analysis and QC for these parameters are laboratory derived.

FORM 601/2cis Rev. 041493

1 1	1	1	1 1	l C	I HAIN C	i of cus	I Stody re	I CORD	1		I	ì	ì	I	<b>N</b> ō	1006		
Client/Project N	lame			Project	Location					7				<del></del>		/		
CHITEE/CEN BANK-FOTO AUT 77A WOODSTOCK, RUHLAND INT ANALYSES																		
Project No. Field Logbook No.																		
1-2342-2 (044) OMBA /8//																		
Sampler: (Signa	ature)		Cha	ain of Cu	stody Tap			· · ·	7/		$\sqrt{n}$	<b>W</b>						
Milly	MAN	Jann	; Kota	JC	7 - 6	04		/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\langle k \rangle$		/	/ /	/ /	/		!	
Sample No./			∪ Lab Samı	nle		Туре	e of	/1	$\eta_{\eta}$	$h^{t}$	$\mathcal{O}_X$							
Identification	Date	Time	Numbe			Sam		/ M	3)/		<b>y</b> /				REM	REMARKS		
MWB-5	10/1/23	10:00			5011.	TUE	6445	\ <u>\</u>						PI	2.252	D PPN	/	
MW/	16/13/93	2:15pm			1		40 AOML			V								
	10/12/93	77					<del></del>			1								
	<del></del>	1 1				1												
MWA	11/12/93	T ]				1			1									
<del></del>	<del></del>								1			<del></del>						
	10/12/193	1:40 pm	•		1	/		1/	,			·	<del></del>					
MUIB	11/1/1/33	2.55pm	······································			<del>//</del>		-	1	<del></del>				<del></del> -				
Relinquished by					D	ate	Time	Recei	ved by	(Sign	ature)		•	•	Date	Time		
		min	<del>-</del> )		10	11/1/2	3	Ja	ana	ny f					10-11-93	3 1.00	Pn	
Relinquished by	(Signature	e)			ठ	axe	Time		ved by						Date	Time	<del>                                     </del>	
Janay	Lita	<i>(</i> )			11	1393	9:30ai	n										
Relinquished by	<del></del>	· -·			D	ate	Time	Recei	vegion	Labor	atory: (	Signa.	ture)		Date /	Time		
								1//	10		<u> </u>				10/14/9-	3   12:3	O	
Sample Disposa	il Method:				0	isposed	of by: (Sigi	nature)							Date	Time		
SAMPLE COLLE	ECTOR		<del>-</del>			IALYTIC	AL LABOR	ATORY	RES	VII.	701	DON	MAS	NAR.	<del> </del>			
5 Sta		<del>-</del>	N COMPANY,		+	·~ /1				حي. با -	177	HV	50N	NAR.	1			
Mantpelier, V		vironmental S	Sciences and Engir	teering		NVO	CETO							-	<u> </u>			
(802) 2 Lax. (802) 2	229-4600 219-5826				'	-, -,		CHI	ITE	Whi		BA	VK					
(A), (B)2) 2	CEO-301 H							2	BU	CLIN	100	NA	EQU!	RE	+POB	ロメモニ	0	
974 3 80						<u></u>	····		51/	LIA	44	M	17	05	# O =	<u> </u>	]	

l ì	1	ì	] 1	l C	l l HAIN OF CUS	) STODY RE	I CORD	I	ĵ	1	1	N <sup>1</sup>	2 1	007	
Client/Project N	NOEAL.	BANK-	FOTOHOO	Project I	Wadestal	K, RU	thand	.vj	<u>Z</u>	AI	NALYSE	s /	/	/	
Sampler: (Signa January	ZAZ- nture)	2 (04	(4)	Mi-	- 2 tody Tape No. 0 - 604	/	/				//	//			
Sample No./ Identification	Date	Time	Lab Sam Numb	nple	Typ San	e of		//					REMAF	RKS	
MW3.0UP. OBI FIFI.0BLMI	1412/93	2:15pm	- 1				7								
FIFFU DEJIM	(1077-715)	1.10pm											<u> </u>		
Relinquished by	( )				Date 10-/3-73	Time 930an	Receive	d bγ: ( <i>Si</i> g	 gnature}		l.	C	Date	Time	1
Relinguished by	(Signature	?}			Date	Time	Received by: (Signature) Date Time				Time				
Relinquished by: (Signature)					Date	Time	Received for Laboratory: (Signature)  Date   Time					Time /7:30	1 .		
Sample Disposa	l Method:				Disposed	of by: (Sign	ature)			•		C	Pate	Time	
SAMPLE COLLE 5 Stai Montpelier, V (802) 2 Ins. (602) 2	te Street TH. 1 05602 Ent		N COMPANY			E A	ATORY								10/10
1074 7 04						<sup></sup>		· · · · · · · · · · · · · · · · · · ·		·			:		

## LABORATORY REPORT

CLIENT NAME: The Johnson Company DATE OF SAMPLE:
STE LOCATION: Fotohut- Rutland, Vt. DATE OF RECEIPT:
L. BORATORY NO: 2-1638 DATE OF ANALYSIS:
PROJECT NO: 78611 DATE OF REPORT:
ATTENTION: Don Maynard

9/21/92 9/30/92 10/2/92 10/22/92

PARAMETER CONTRACTOR C	<u>OB - 1</u>
CTloromethane	< 50
B: pmoform	< 50
3romomethane	< 50
D <del>i</del> bromochleromethane	< 50
7 nyl Chloride	< 50
2-Chloroethylvinyl Ether	< 50
C <u>h</u> loroethane	< 50
Mothylene Chloride	< 50
It ichloroethylene	< 50
Prichlorofluoromethane	÷ 50
1-1-Dichloroethene	< 50
1 1-Dichloroethane	< 50
pis-1,2-Dichloroethylene	268
Chloroform	< 50
1 ?-Dichloroethane	< 50
1,1,1-Trichloroethane	< 50
Carbon Tetrachloride	< 50
3 modichloromethane	< 50
1,2-Dichloropropane	< 50
t-1,3-Dichloropropene	< 50
of1.3-Dichloropropene	< 50
1 1,2,2-Tetrachloroethane	< 50
1.1,2-Trichloroethane	< 50
Tetrachloroethylene	< 50
3. nzene	< 50
Toluene	59
Ithylbenzene	144
Morobenzene	< 50
i 1-Dichlorobenzene	< 50
1,3-Dichlorobenzene	< 50
1-2-Dichlorobenzene	< 50
t lenes kulums	1240

E A Method 601 & 602; All results reported as ug/l or ppb.

HOTE: Many late eluting aromatic hydrocarbons present.

Burrogate % Recovery 601/602

RECEIVED

007 2 6 1992

THE JOHNSON CO., INC. HONTPEUDS, VENUONT

Respectfully Sabmitted,

102/112

SCATEST, INC.

Roderich J. Lamothe Laboratory Director

WL/rog



CHAIN OF CUSTODY RECORD

Client/Project Name	Project Lo	cation	7	
Ch. Henden Bank	- toto Hut Ru-	Hand, Veri	mont ANALYS	F.C.
Project No.	Field Logboo	k No.		<del>25</del>
1-0342-1	[ TMJ	- 9	1.04 / /	
Sampler: (Signature)	Chain of Custoo	dy Tape No.		
Jammy Fortier	JCc	) 947		/ /
Sample No./	Lab Sample	-		/ i
Identification Date Time	Number : Marin :	Type of Sample		REMARKS
OB-1: 9-21-92	2-1638	water		, newants
	From Programme	12. 1		
		• •	1, 16, 10	
				<u> </u>
	!			
Refinquished by: (Signature)				
Jammy Fortier		9-30-9 8:15	1 (0.97/4(0))	Date Time
elinquished by: (Signature)		Date Time	Received by: (Signature)	
			(Signature)	Date Time
Relinquished by: (Signature)		Date Time	Received for Laboratory: (Signature)	
	· · · · · · · · · · · · · · · · · · ·		(Signature)	Date Time
Sample Disposal Method:		Disposed of by: (S	Signature)	9/30/92 10:20 P
		ļ		Date 'Time
SAMPLE COLLECTOR		ANALYTICAL LAB	ORATORY	
5 State Street THE JOHNSON	N COMPANY, INC.		+	
Montpelier, VT 05602 Environmental Section (802) 229-4600	cionces and tagineering	1 Scites	S' I I WE WITTEN	
Fas: (802) 229-5876	· ·	trans	ported via VT Transit	
			ı	
Commence of the Commence of th		•		



P.O. Box 339 Randolph, Vermont 05060-0339 (802) 728-6313

78611 March 11, 1992

Mike Pottinger
The Johnson Company
5 State Street
Montpelier, VT 05602

RE: Fotohut Free Product Analysis Sample # 2-0367

Dear Mike:

I have attached copies of the hydrocarbon fingerprint for Tanks #2 & 3 solvents which we received on 3/6/92. Verbal results were given on 3/9/92.

All of the standards and samples were analyzed at a 1% dilution in Dichloromethane. The patterns for both tanks are quite similar, however, neither matched the patterns for the 3 petroleum products (gasoline, kerosene, diesel). The tank solvents have peaks in common with the latter portion of the gasoline chromatograph and the earlier portion of the kerosene chromatograph.

To further categorize the solvents an EPA Method 8240 analysis for purgeable organics was performed. Results showed the unknown solvent to be a mixture of Toluene, Xylenes, Ethylbenzene, and Tetrachloroethylene with other (higher boiling) compounds such as C9H12 and C10H12 present in the mixture.

I hope with these combined analyses, you have sufficient information to categorize these unknown organic mixtures. Please call me if you have any further questions.

Sincerely

Robert J. Shipman Organic Chemist

RJS/cha

Page 1 of 3

#### LABORATORY REPORT

CLIENT NAME: The Johnson Company LABORATORY NO.: 2-0367
ADDRESS: 5 State Street PROJECT NO.: 78611
Montpelier, VT 05602 DATE OF SAMPLE: 3/6/92

© [E LOCATION: Fotohut, Rutland, VT DATE OF ANALYSIS: 3/8/92 | TENTION: Mike Pottinger DATE OF REPORT: 3/11/92

## VOLATILE ORGANIC DATA FOR WASTE SOLVENT DILUTIONS RESULTS IN PFM (volume/volume)

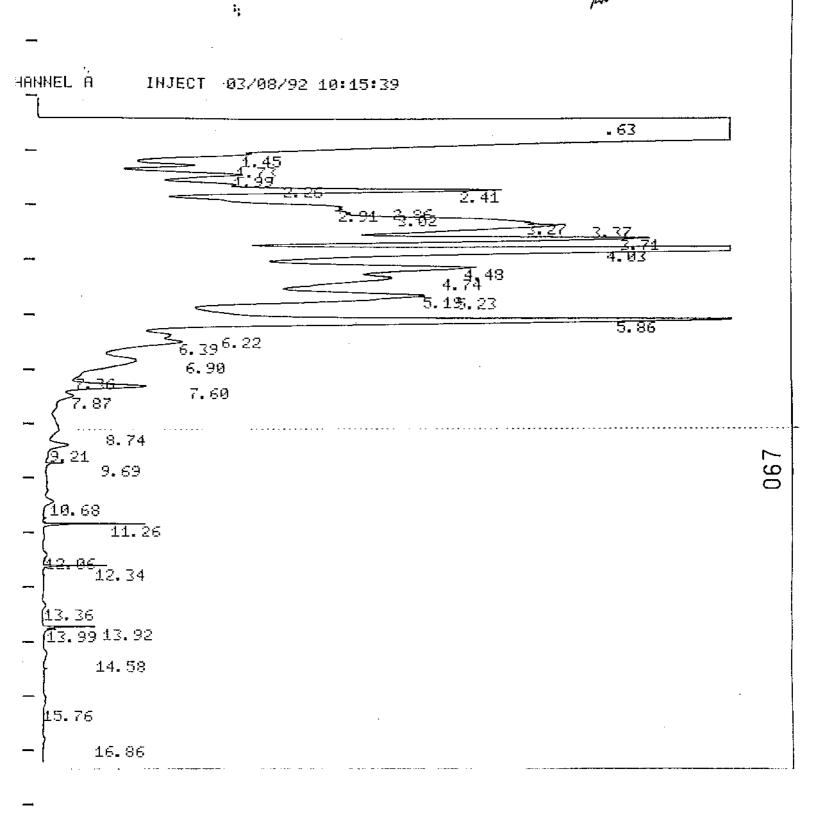
#### QUALITY CONTROL DATA

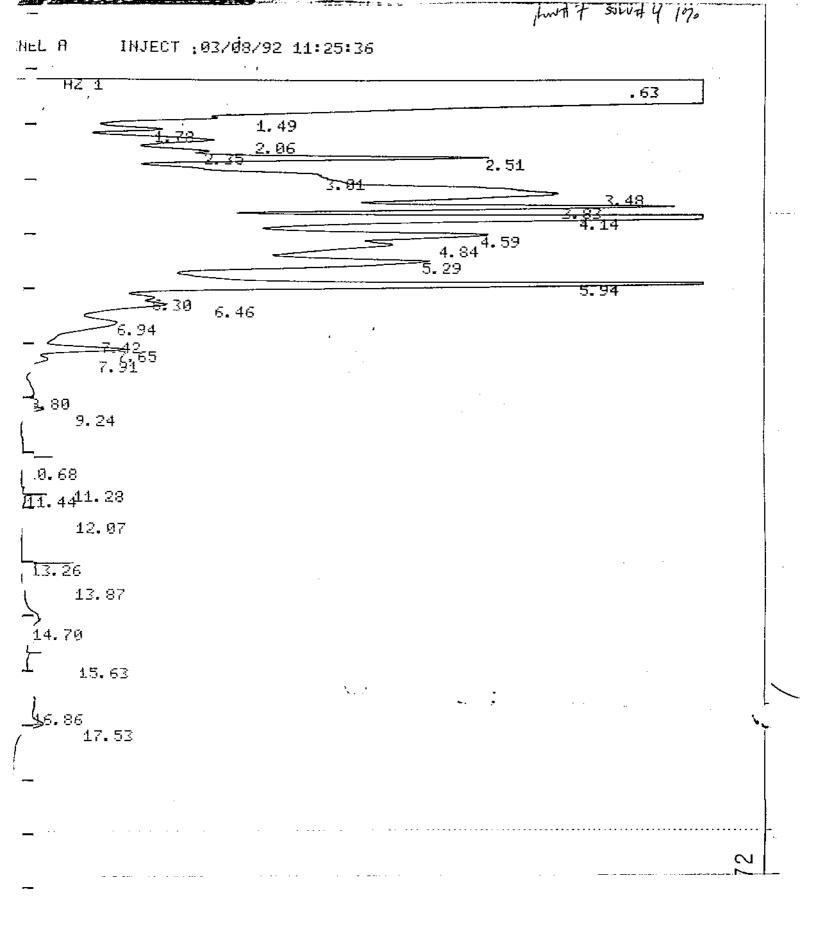
_	QUALITY	CONTROL DATA	
<del>-</del>			PRACTICAL
	Sample 4	Sample 5	QUANTITATION
PARAMETER	Tank #2	Tank #3	LIMIT
C. loromethane	BPQL	BPQL	2500
B. omomethane	BPQL	BPQL	2500
Vinyl Chloride	BPQL	BPQL	2500
Chloroethane	BFQL	BPQL	2500
M thylene Chloride	BPQL	BPQL	2500
Acetone	BPQL	BPQL	2500
Frichlorofluoromethane	BFQL	BPQL	1250
C cbon Disulfide	BPQL	BPQL	1250
1 1-Dichloroethene	BPQL	BPQL	1250
1,1-Dichloroethane	BPQL	BPQL	1250
1-2-Dichloroethene(Total)	BPQL	BPQL	1250
C loroform	BPQL	BPQL	1250
	BPQL ·	BPQL	1250
1,2-Dichloroethane	BPQL	BPQL	5000
2_Butanone (MEK)			1250
1 1,1-Trichloroethane	BPQL	BPQL	1250
Curbon Tetrachloride	BPQL	BPQL BPQL	5000
Vinyl Acetate	BPQL	•	1250
Comodichloromethane	BPQL	BPQL	
1 2-Dichloropropane	BPQL	BPQL	1250
c-1,3-Dichloropropene	$\operatorname{BFQL}$	BPQL	1250
T-ichloroethene	$\mathtt{BPQL}$	BPQL	1250
D bromochloromethane	$\mathtt{BPQL}$	BPQL	1250
1,1,2-Trichloroethane	BPQL	BPQL	1250
Benzene	BPQL	BPQL	1250
t 1,3-Dichloropropene	BPQL	BPQL	1250
2 Chloroethylvinylether	BPQL	BPQL	1250
Bromoform	BFQL	BPQL	1250
4 Methyl-2-Pentanone (MIBK)	BPQL	BPQL	5000
2 Hexanone	BFQL	BPQL	5000
Tetrachloroethene	1030	848	1250
1—1,2,2-Tetrachloroethane	BPQL	BPQL	1250
T luene	643	570	1250
Chlorobenzene	BPQL	BPQL	1250
E <u>t</u> hylbenzene	985	908	1250
S yrene	$\mathtt{BPQL}$	BPQL	2000
m Xylene	2290	2280	2000
o,p-Xylene	2810	2530	2000
1-3-Dichlorobenzene	$\mathtt{BPQL}$	BPQL	2000
1 2-Dichlorobenzene	$\mathtt{BPQL}$	BPQL	2000
1,4-Dichlorobenzene	BPQL	BPQL	2000

E A Method 8240, SW 846, 3RD ED., Nov 1986 B.QL = Below Practical Quantitation Limit.

ote: All compounds found were in the range of the EPA Method 8240 FQL level bt above our Method Detection Limits.









P.O. Box 339 Randolph, Vermont 05060-0339 (802) 728-6313

August 31, 1993 78611

Don Maynard The Johnson Co 5 State Street Montpelier VT 05060

Subject: Sample Nos 2-0367

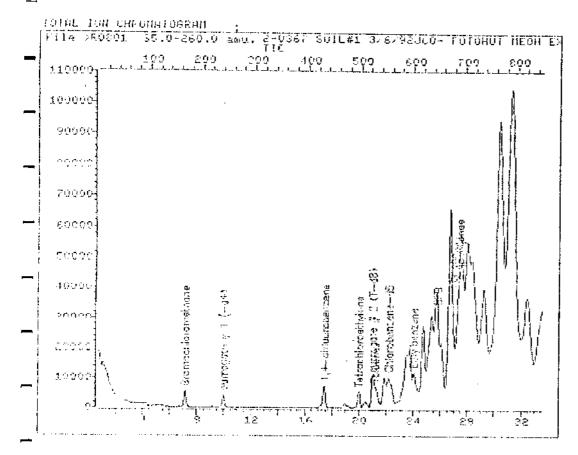
Dear Don,

As you requested, we are supplying copies of the chromatograms that we obtained during the analysis of these samples for volatile organics.

Please call me if there are any questions.

Sincerely/

Roderick Lamothe SCITEST INC.



Pata File: \ROCC1::02

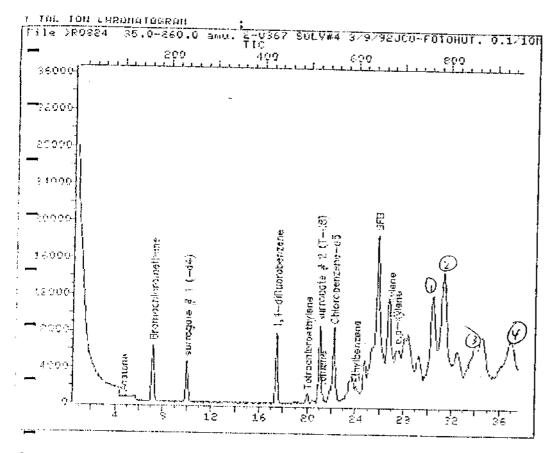
Quant Output File: '80801::QT

Hame: 2-0367 9011#1 3/6/92 Plac: 300- F0YOFBT MECH ENT

Id File: ID\_CLQ::SD

Title: 5 Point Calibration FOR 0240 & 674

Last Calibration: 920304 14:24



[\_.a File: \f0934::02

Quant Output File: 'R0924::QT

Manet 2-0367 SQLV84 3/9/92

: →c: JCO-FETCHST, 0.1/10HL, .002/5HL

ld File: ID\_CLO::sc

Tile: 5 Point Calibration FOR 8740 \$ 624

1 t Calibration: 920394 14:24

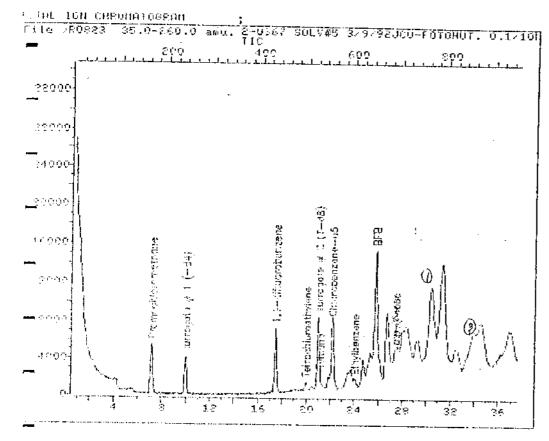
 (1) 105 91 77 61 34 Just

75 -> 469. MATERIES.

(2) 105,57, 43, 85,71,120 C9H12. Y7 → 3172

(9) 105/12/screwlsonde Iva

0.1-10-LMOH 100 JA25000 Julys.



] a File: `80923::02

Quant Output File: 180823::OT

Tabier 3-0367 801985 3/9 mg

÷:: JEO-FOTCHRY, 0.1/17HL, .002/5HL

O- SAME CRAFT FOR MARCH +
MARCOL M/
SULV. HY.

Mafile: ID\_CLOSESC

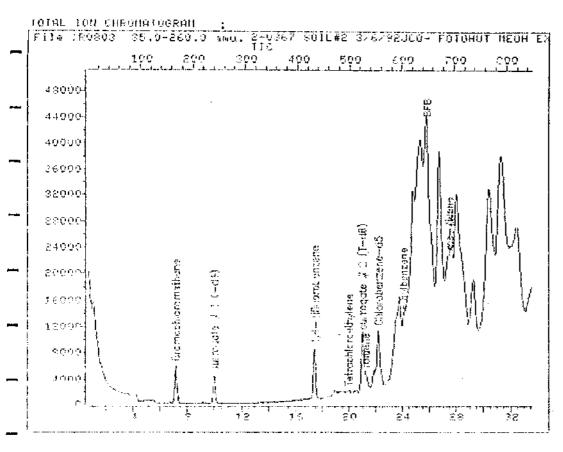
"34"3: 5 Point Calibration FOR 8240 8 624

. t Calibration: 926306 14:24

`tarator ID: RS The Time: 020100 12:46 Toested at: 920709 12:46

(3) 55, 85, 82, 59, 41 zur

672 Clother



95ts File: \5999971:02

- Orant Output File: 180803::QT

Name: 2-0367 SMIH2 7/6/92 Miss JEO- COTOMIT MENN EXT

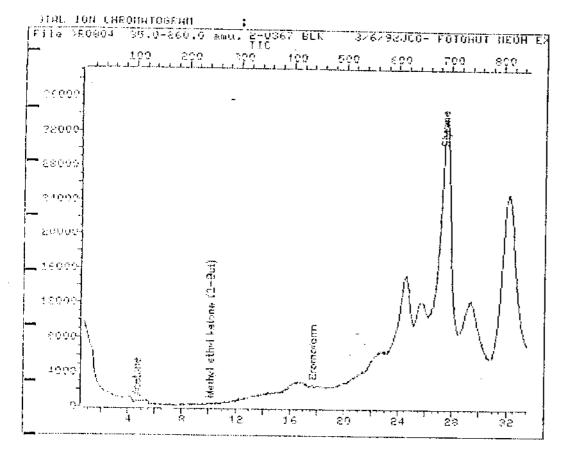
IH File: ID\_SLO-+St

Title: 5 Print Californtion 500 9260 8 824

Last Calibrations 020708 14:24

Pagrater IC: 90

Overt Tiest (2070/ 22117 Injected ats (2070/ 2117)



vara Fila: vonondring

Orant Output File: '80804::QT

Mere: 2-9367 BLK 3/6/92 Tea: 300- FOIRNUT MERN EXT

Id Filer ID\_CLQ::SC

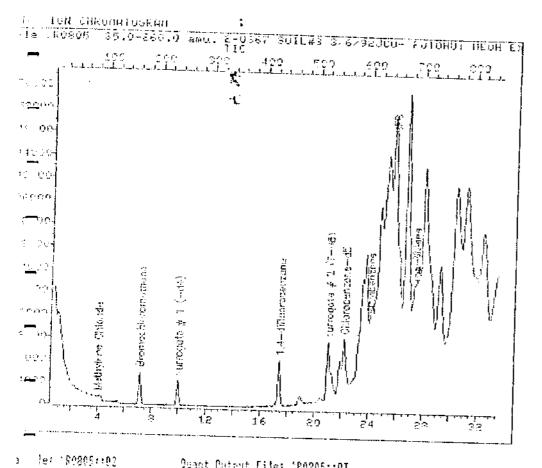
-itle: 5 Faint Calibration FOR 8046 & 624

art Calibration: 020306 14:24

Parestor IC: BS

Jank Timer 920786 22152

1. Jacked atm 920106 72117

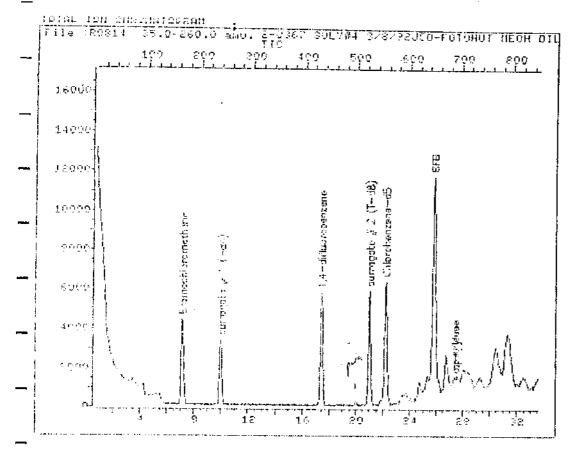


of 2-0347 SOIL#3 3/6/92

Quant Cutput File: '80205::QT

ile: ID\_CLC::SC Time 5 Point Calibration FOR 8249 S 624 libration: 920705 18:14

abor 10: ES 1 PAGE 1 920764 2717 \_1 abi 920703 22:56

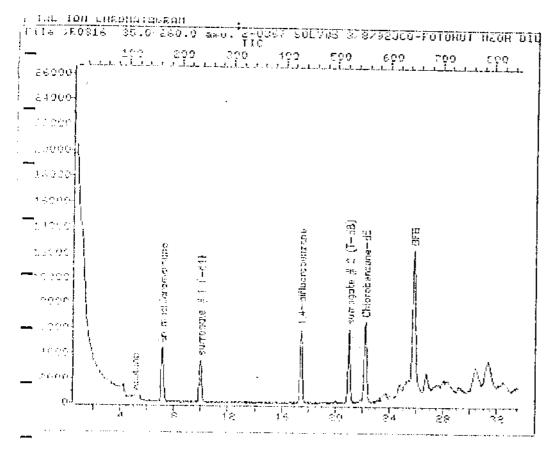


Data Filat 0909111192 Marer 2-0357 501785 370/02 Miscr 300-F070MMT MEON DIL

Quant Output File: '80814::QT

IN File: ID\_CLQ::00 Title: E Point Calibration FOR 8240 & 624 Last Calibration: COO306 14:24

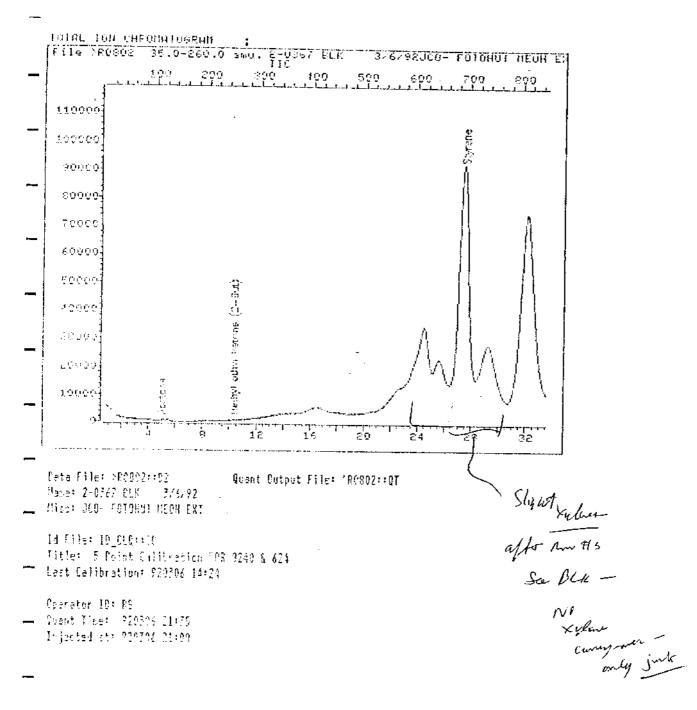
Operator ID: PS - Paget Times BEATAB 14478 Injected at: 919309 15:54



ta File: 000016::02 Mare: 2-0367 801085 870:02 Quant Output File: 180813::QT

###### 300-F610891 #E64 017

Some sough hext sen



CLIENT NAME: The JOHNSON Company LABUKATUKI NU... 78611 PROJECT NO.: 5 State Street DDRESS: 1/15/92 7498 Montpelier, VT 05602 DATE OF SAMPLE: DATE OF ANALYSIS: 1/29/92 SITE LOCATION: Fotohut, Rutland, VT ATTENTION: Mike Pottinger DATE OF REPORT: 2/14/92

VOLATILE ORGANIC DATA FOR WATER SAMPLE RESULTS IN MICROGRAMS/LITER (ppb)

<del>-</del>			PRACTICAL QUANTITATION
PARAMETER	Groundwater	TOMK#1	LIMIT
Chloromethane	BPQL	•	600
Promomethane	BPQL		300
Vinyl Chloride	BPQL		300
Chloroethane	BPQL		300
iethylene Chloride	BPQL		300
cetone	BPQL		600
Trichlorofluoromethane	BPQL		300
Carbon Disulfide	BPQL		300
l,1-Dichloroethene *	BPQL		300
1,1-Dichloroethane	$\mathtt{BPQL}$		300
_1,2-Dichloroethene (Total)	$\mathtt{BPQL}$		300
Chloroform	BPQL		150
1,2-Dichloroethane	BPQL		150
2-Butanone (MEK)	BPQL		600
1,1,1-Trichloroethane	BPQL		150
Carbon Tetrachloride	BPQL		300
Vinyl Acetate	BPQL		600
-Bromodichloromethane	$\mathtt{BPQL}$		150
1,2-Dichloropropane	$\mathtt{BPQL}$		150
c-1,3-Dichloropropene	BPQL		150
_Trichloroethene *	$\mathtt{BPQL}$		150
Dibromochloromethane	$\mathtt{BPQL}$		150
1,1,2-Trichloroethane	$\mathtt{BPQL}$		150
Benzene *	$\mathtt{BPQL}$		150
t-1,3-Dichloropropene	$\mathtt{BPQL}$		150
2-Chloroethylvinylether	BPQL		300
Bromoform	BPQL		300
-4-Methyl-2-Pentanone (MIBK)	BPQL		600
2-Hexanone	$\mathtt{BPQL}$		600
Tetrachloroethene	BPQL		150
_1,1,2,2-Tetrachloroethane	BPQL		150
Toluene *	BPQL		150
Chlorobenzene *	BPQL		150
Ethylbenzene	BPQL		150
Styrene	BPQL	.1	300
m-Xylene	686 212	56	300
o,p-Xylene	570 )		300
-1,3-Dichlorobenzene	BPQL		300
1,2-Dichlorobenzene	BPQL		300
1,4-Dichlorobenzene	BPQL		300

EPA Method 8240, SW 846, 3rd Ed., Nov 1986. \* = CLP S BPQL = Below Practical Quantitation Limits.

\* = CLP Spike Compound (5 total)

Page 3 of 4



## LAPORATORY REPORT

CLIENT NAME: SAMPLE LOCATION: LABORATORY NUMBER:

PROJECT NUMBER:

Chittenden Bank Fotohut, Rutland VT

Fotohut, Rutland VT 1118-90

1118-90 89721 DATE OF SAMPLE: 08-15-90 DATE OF RECEIPT: 08-15-90

DATE ANALYZED: 08-24-90

	DAD AVENTED	Solvent H	Solvent I	Soil F	Soil C
	PARAMETER Chloromethans	<240000	<50000	<5	<3
	Uniorome chare Bromoform	<240000	<50000	<5	<3
	Bromomethane	<240000	<50000	<5	<3
	Bromomethane Dibromochloromethane	<240000	<50000	<5	۷3
	Dipromodificate shears Vinyl Chloride	<240000	<50000	<5	<3
	2-Chloroethylvinyl Rther	<240000	<50000	<5	<3
		<240000	<50000	<5	<3
	Chloroethane	<240000	<50000	<5	<3
	Methylens Chloride	<240000	<50000	<5	<3
	Trichloroethylene	<240000	· <50000	<5	<3
_	Trichlorofluoromethane	<240000	<50000	<5	<3
	1,1-Dichloroethene	<240000	<50000	<5	<3
	1,1-Dichloroethane	<240000	<50000	<5	<3
_	cis or trans-1,2-Dichloroethylene	<240000	<50000	<6	<3
	Chloroform	<240000	<50000	<5	<3
	1,2-Dichlorosthans	<240000	<50000	<5	<3
	1,1,1-Trichloroethane	<240000	<50000	<5	<3
_	Carbon Tetrachlorida	<240000	<50000	<5	<3
	Bromodichloromethene	<240000	<50000	<5	<3
	1,2-Dichloropropine	<240000	<50000 <50000	<5	<3
_	trans-1,3-Dichloropropens	<240000	<50000	<5	<3
	cis-1,3-Dichloropropene	<240000	<50000	<5	<3
	1,1,2,2-Tetrachloroethane	<240000	<50000	<5	<3
_	1,1,2-Trichloroethane	137000	<50000	238	<3
	Tetrachloroethylene - day cleaning Solver	<240000	<50000	₹5	<3
	Benzene	Interior co		Int	۲3
	Toluene	Int	Int	Int	<3
	Ethylbenzene	<240000	<50000	<b>&lt;</b> 5	<3
	Chlorobenzene	<240000 <240000	<50000	<b>&lt;</b> 5	۷3
	1,4-Dichloropenzene	<240000	<50000	<5	<3
_	1,3-Dichlorobenzene	<240000	<50000	<5	<3
	1,2-Dichlorobenzene	Int	Int	Int	⟨3
	Xylenes	1:10	* * * * *	***	
_	8020 - Miscellaneous double bonded	>23%	>15.8%	>143000	<3
	Hydrocarbons as Xylenes	76GR	. 20,0.0	<del></del>	

EPA Method 8010 & 8020; All results reported as ug/kg or ppb. por publishmer. Toluene, Ethylbenzene and Xylenes were not quantitated due to interference peaks from the sample matrix.

Mylow ford with relatively high boding point

Respectfully submitted,

SCITEST, INC.

Roderick J. Lemothe Laboratory Director

COSCITEST

RJL/trs



By:

# Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

Factor:

1

Client: Johnson Company IEA ID: J104-029-01 Project: 1-0342-2-FOTOHUT Sample: MW-1S Report Date: 10/19/93 Type: Soil Collected: 09/30/93 Container: Glass Received: 10/05/93 Analyzed: 10/07/93 Dilution

Purgable Halocarbons

 ${\tt GMT}$ 

		PQL	Result
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	ī	BQL
6	Chloroethane	i i	BQL
7	2-Chloroethylvinyl ether	ī	BQL
8	Chloroform		BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	ĺ	BQL
16	1,2-Dichloroethane	1	BOT
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	_ 1	BQL
28	Trichlorofluoromethane	ī	BOT
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client: Project: Johnson Company

IEA ID:

J104-029-01

1-0342-2-FOTOHUT

Sample:

MW-1S

#### Purgable Aromatics

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt
30	Benzene	1	BQL
31	Ethylbenzene	1	BQL
32	Toluene	. 1	BQL
33	Xylenes	1	2
34	Methyl-t-butylether	1	BQL,
Surroga	te Standard Recovery:		
	1,4-Dichlorobutane	87 %	
	1,4-Difluorobenzene	80 %	

#### Comment:

BQL = Below Quantitation Limit PQL = Practical Quantitation Limit Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.



# Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

Client: Johnson Company IEA ID: J104-029-02 Project: 1-0342-2-FOTOHUT Sample: MW-3

Report Date: 10/19/93 Type: Soil Collected: 09/30/93 Container: Glass

Received: 10/05/93
Analyzed: 10/07/93 Dilution

By: GMT Factor: 2.1

#### Purgable Halocarbons

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	<u>1</u>	BQL,
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



## Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-029-02

Project:

1-0342-2-FOTOHUT

Sample:

MW-3

#### Purgable Aromatics

		PQL	Result
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt
30	Benzene	<u>′1</u>	BQL
31	Ethylbenzene	ì	18
32	Toluene	2	BQL
33	Xylenes	1	29
34	Methyl-t-butylether	1	BQL

### Surrogate Standard Recovery:

1,4-Dichlorobutane	103	₽
1,4-Difluorobenzene	92	ક્ર

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

Smaller amount of sample analyzed due to the high concentration of target compounds present.

Smaller amount of sample analyzed due to the presence of non-target compounds.



By:

# Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

1.1

Factor:

Client: Johnson Company IEA ID: J104-029-03 MW-41-0342-2-FOTOHUT Project: Sample: 10/19/93 Soil Report Date: Type: Collected: 10/01/93 Container: Glass Received: 10/05/93 Analyzed: 10/11/93 Dilution

#### Purgable Halocarbons

GMT

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt.)
1	Bromodichloromethane	1	BQL₊
2	Bromoform	1	$\mathtt{BQL}$
3	Bromomethane	1	BQL
4	Carbon tetrachloride	<u>1</u>	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	ı	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	$\mathbf{BQL}$
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-029-03

Project:

1-0342-2-FOTOHUT

Sample:

MW-4

#### Purgable Aromatics

		PQL	Result			
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt			
30	Benzene	1	BQL			
31	Ethylbenzene	1	BQL			
32	Toluene	· <u>1</u>	BQL			
33	Xylenes	1	1			
34	Methyl-t-butylether	1	BQL			
Surroga	te Standard Recovery:					
	1,4-Dichlorobutane	84 %				
	1,4-Difluorobenzene	87 %				

#### Comment:

BQL = Below Quantitation Limit
PQL = Practical Quantitation Limit
Quantitation limits for this sample are obtained by multiplying the
PQL by the dilution factor.



# Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

J104-029-04 IEA ID: Client: Johnson Company MW-5 Project: 1-0342-2-FOTOHUT Sample: Soil 10/19/93 Type: Report Date: Container: Glass 10/01/93 Collected: 10/05/93 Received: 10/07/93 Dilution Analyzed: 56 GMT Factor: By:

#### Purgable Halocarbons

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL.
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	$\mathtt{BQL}$
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	$\mathtt{BQL}$
13	1,4-Dichlorobenzene	1	$\mathtt{BQL}$
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL.
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



### Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-029-04

Project:

1-0342-2-FOTOHUT

Sample:

MW-5

#### Purgable Aromatics

		PQL	Result
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt
30	Benzene	1	BQL
31	Ethylbenzene	ı	560
32	Toluene	1	67
33	Xylenes	1	3,200 ppb
34	Methyl-t-butylether	1	BQL
Surrogat	te Standard Recovery:		
	1,4-Dichlorobutane	47 %	
	1,4-Difluorobenzene	43 %	,

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

Smaller amount of sample analyzed due to the high concentration of target compounds present.

Quantitation limit elevated due to smaller amount of sample analyzed.



# Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

Client: IEA ID: J104-029-05 Johnson Company Project: 1-0342-2-FOTOHUT Sample: MW-6 10/19/93 Soil Report Date: Type: Collected: 10/01/93 Container: Glass Received: 10/05/93 Analyzed: 10/07/93 Dilution By: GMT Factor: 66

#### Purgable Halocarbons

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL.
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	<u>1</u>	BQL.
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-029-05

Project:

1-0342-2-FOTOHUT

Sample:

MW-6

#### Purgable Aromatics

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt
30	Benzene	1	BQL
31	Ethylbenzene	1	930
32	Toluene	• 1	BQL
33	Xylenes	1	7,200
34	Methyl-t-butylether	1	BQL
Surroga	te Standard Recovery:		
	1,4-Dichlorobutane	65 %	
	1,4-Difluorobenzene	68 %	

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.

Smaller amount of sample analyzed due to the high concentration

of target compounds present.

Quantitation limit elevated due to smaller amount of sample analyzed.



## Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

J104-029-06 IEA ID: Client: Johnson Company Project: 1-0342-2-FOTOHUT Sample: MW-7 Soil Type: 10/19/93 Report Date: Container: Glass 10/01/93 Collected: 10/05/93 Received: Dilution 10/07/93 Analyzed: Factor: 1 By: GMT

#### Purgable Halocarbons

		PQL	Result
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	BQL
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BOT
20	cis-1,3-Dichloropropene	1	BQL
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	1	BQL
24	Tetrachloroethene	1	$\mathtt{BQL}$
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



# Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-029-06

Project:

1-0342-2-FOTOHUT

Sample:

MW-7

#### Purgable Aromatics

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt		
30	Benzene	1	BQL		
31	Ethylbenzene	1	BQL		
32	Toluene	. 1	$\mathtt{BQL}$		
33	Xylenes	1	BQL		
34	Methyl-t-butylether	1	BQL		
Surroga	te Standard Recovery:				
	1,4-Dichlorobutane 1,4-Difluorobenzene	78 % 87 %			

#### Comment:

BQL = Below Quantitation Limit
PQL = Practical Quantitation Limit
Quantitation limits for this sample are obtained by multiplying the
PQL by the dilution factor.



### Analysis Report: EPA Methods 8010/8020 (PAGE 1 OF 2 PAGES)

J104-031-01 IEA ID: Client: Johnson Company

1-0342-2(044), 77A Woodstock Sample: MW8-5 Project: Soil Type: Report Date: 10/28/93 Container: Glass Collected: 10/11/93

Received: 10/14/93

10/25/93 Dilution Analyzed:

Factor: 270 GMT By:

### Purgable Halocarbons

Number	Compound	PQL (ug/kg dry wt.)	Result (ug/kg dry wt.)
1	Bromodichloromethane	1	BQL
2	Bromoform	1	$\mathtt{BQL}$
3	Bromomethane	1	BQL
4	Carbon tetrachloride	1	BQL
5	Chlorobenzene	1	BQL
6	Chloroethane	1	BQL
7	2-Chloroethylvinyl ether	1	BQL
8	Chloroform	1	BQL
9	Chloromethane	1	BQL
10	Dibromochloromethane	1	BQL
11	1,2-Dichlorobenzene	1	BQL
12	1,3-Dichlorobenzene	1	BQL
13	1,4-Dichlorobenzene	1	BQL
-14	Dichlorodifluoromethane	1	BQL
15	1,1-Dichloroethane	1	BQL
16	1,2-Dichloroethane	1	BQL
17	1,1-Dichloroethene	1	BQL
<del>-</del> 18	trans-1,2-Dichloroethene	1	BQL
19	1,2-Dichloropropane	1	BQL
20	cis-1,3-Dichloropropene	<b>1</b> .	$\mathtt{BQL}$
21	trans-1,3-Dichloropropene	1	BQL
22	Methylene chloride	1	BQL
23	1,1,2,2-Tetrachloroethane	• 1	BQL
24	Tetrachloroethene	1	BQL
25	1,1,1-Trichloroethane	1	BQL
26	1,1,2-Trichloroethane	1	BQL
27	Trichloroethene	1	BQL
28	Trichlorofluoromethane	1	BQL
29	Vinyl chloride	1	BQL



### Analysis Report: EPA Methods 8010/8020 (PAGE 2 OF 2 PAGES)

Client:

Johnson Company

IEA ID:

J104-031-01

Project:

1-0342-2(044), 77A Woodstock

Sample:

MW8-5

#### Purgable Aromatics

		$\mathtt{PQL}$	Result
Number	Compound	(ug/kg dry wt.)	(ug/kg dry wt
30	Benzene .	1	BQL
31	Ethylbenzene	1	3,800
32	Toluene	· <b>1</b>	270
33	Xylenes	1	39,000
34	Methyl-t-butylether	1.	BQL

#### Surrogate Standard Recovery:

1,4-Dichlorobutane	95	ŧ
1,4-Difluorobenzene	100	ъ

#### Comment:

BQL = Below Quantitation Limit

PQL = Practical Quantitation Limit

Quantitation limits for this sample are obtained by multiplying the

PQL by the dilution factor.

Smaller amount of sample analyzed due to the high concentration

of target compounds present.

Quantitation limit elevated due to smaller amount of sample

analyzed.

1 1	<b>/1</b>	1 1	ì	l' c	I HAIN	OF CUS	I TODY RE	I CORD	i	ì	ŀ	ı	ı N	· 11	04
Client/Project N	ame	· - ·		Project	Locati	on				7	· · · · · · · · · · · · · · · · · · ·	· · · · · ·			16
	: 1	- FOT	DHUT	RU	TZZ	ND,	V7					ANALYS	ES	/ k	3/1/2
Project No.				Field Logb	ook N	0.						/ /	′ /	14	Kro.
1-0	342-	-ス		DI	111	8A_			_/ 、		/- /			140	h'd'
Sampler (Signa	M/	winn	> c	hain of Cus	stody T	ape No.		/				/ /	/ /	PLUS MY	840
Sample No./ Identification	Date	Time	Lab Sas Numb			Type Sam		R						REMAR	ks
MINIS	9/30	10:30			TUD	64165	SOIL						PID ;	20 PPM	
MINZ	9/20	14:45		:	774	2 Cotab	5011	1					PO 1	15 APM	
M 1114-	1011	19:05		· . ·		0644		1					PD 7	ZYPM- B	ACKINDUM
MINE	INI	12:20				O Cole Miles	P	V					PIP	190 PPN	1
MILL	16/1	14:10		-	11		1	4					PID	250 PI	W
MINIZ	10/1	1540			1/	,	11 1 1 1 1 1 1 1 1 1 1			PIL	D-O. FROM				
11 VU - 1-	W	100			1							(	-nee	DLOWD	ded Hints
Relinquished by	Signay	hall				Date 10/1/93	Time 14:30	Receiv	ved by: (3	Signatu	re)			Date	Time
Relinquished by	y: (Signatyl)			<u>, , , , , , , , , , , , , , , , , , , </u>		Date	Time	Receiv	ved by: (3	Signatu	re) .			Date/ /6/5/93	Time /6.00
Relinquished by: (Signature)				-	Date	Time	Receiv	yed for y	aborato	ry: (Sign	nature)	<u></u>	Date 16/5/43	Time /(:a)	
Sample Disposal Method:									Time						
SAMPLE COLLECTOR					ANALYTICAL LABORATORY IEA N.BILLONICA, MISS  RESULTS TO CHRIS BISHOP  CHITTENDENBANK 2. BUNLINGTON SOVER POBORBOO  ENOLINESTAN GEOGRAPO										
5 50			N COMPAN			REGU	473 T	Da	MMad	mad	-500	WOOV	CO.		
Montpelier.		nvironmental (	Sciences and En	gineering		ININ	WF T	7	HRV	BI	s HnD	,	-	<b> </b>	
(802) Fan: (802)	229-4600				}	11110	· · · · · · · · · · · · · · · · · · ·	CH	1772	V))E	VRA	VK.		1	
/##: (#QZ)	227-5010							2	BUN	mte	of Squ	12/0/	DEGOX	800	
l			<del> </del>			···	<del></del>	F57	フタトナイル	17 TW	v. V7		インファイ	<del></del>	

#### LEDVING LOKE KENDAL

CLIENT NAME: AL RESS:

SITE LOCATION:

ATTENTION:

The JOHNSON Company

5 State Street

Montpelier, VT 05602 Fotohut, Rutland, VT

Mike Pottinger

LABORATORY NO.: PROJECT NO.: DATE OF SAMPLE: 2-0367 78611 **3/5-**6/92

DATE OF ANALYSIS: DATE OF REPORT: 3/6/92 3/11/92

# VOLATILE ORGANIC DATA FOR SOIL SAMPLES RESULTS IN MICROGRAMS/KILOGRAM (ppb) wet weight

RESUL:	IS IN MICROGRA	ams/kilogram	(ppb) wet	Meigur		PRACTICAL
·	<b>6</b> 13 44	0 13 40	0.41.40	D #1		QUANTITATION
	Soil #1	Soil #2	Soil #3	Dup #1	%RD	LIMIT
<u>PARAMETER</u>	SP 3-5* SportPile	<u>T1 W7*</u>	T1 W9T	<u>SP 3-51</u>	<u> ∕4ND</u>	TITITE
	•	TAKTINGT BPQL 7 266	BPQL 9'8'3	EDVI		3000
N oromethane	BPQL	REGE ,	BLOT 1 002			3000
3romomethane	BPQL	BPQL	BPQL	BPQL		3000
√—yl Chloride	BPQL	BPQL	BPQL	BPQL	<del></del>	3000
Coroethane	BPQL	BPQL	BPQL	BPQL		
Methylene Chloride	$\mathtt{BPQL}$	BPQL	BPQL	BPQL		3000
Acetone	BPQL	BPQL	BPQL	BPQL		6000
E chlorofluoromethane	$\mathtt{BPQL}$	BPQL	BPQL	BPQL		3000
Carbon Disulfide	$\mathtt{BPQL}$	BPQL	BPQL	BPQL		3000
1,1-Dichloroethene	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$	BPQL		1500
1 -Dichloroethane	$\mathtt{EPQL}$	$\mathtt{BPQL}$	$\mathtt{BPQL}$	$\mathtt{BPQL}$		1500
1 :-Dichloroethene (Total)	$\mathtt{BPQL}$	$\mathtt{BPQL}$	$\mathtt{BPQL}$	$\mathtt{BPQL}$		1500
Chloroform	$\mathtt{BPQL}$	PQL	BPQL	BPQL		1500
1-3-Dichloroethane	BPQL	BPQL	BPQL	$\mathtt{BPQL}$		1500
2- lutanone (MEK)	BPQL	BPQL	BPQL	BPQL		6000
1,1,1-Trichloroethane	BPQL	$\mathtt{BPQL}$	BPQL	BPQL		1500
Carbon Tetrachloride	BPQL	BFQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$		1500
V wl Acetate	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$		6000
3: Jmodichloromethane	BPQL	BPQL	BPQL	BPQL		1500
1,2-Dichloropropane	BPQL	BPQL	BFQL	BPQL		1500
3. 3-Dichloropropene	BPQL	BPQL	<b>EPQL</b>	BPQL		1500
In chloroethene	BPQL	BPQL	BPQL	$\mathtt{BPQL}$		1500
Dibromochloromethane	BPQL	BPQL	BPQL	BPQL		1500
1-1,2-Trichloroethane	BPQL	BPQL	BPQL	$\mathtt{BPQL}$		1500
3. zene	BPQL	BPQL	BPQL	BPQL		1500
t-1,3-Dichloropropene	BPQL	BPQL	BPQL	BPQL		1500
2-Chloroethylvinylether	BPQL	BPQL	BPQL	BPQL		3000
3: moform	BPQL	BPQL	BPQL	BPQL		3000
4 lethyl-2-Pentanone (MIBK)	BPQL	BPQL	BPQL	BPQL		6000
2-Hexanone	BPQL	BPQL	BPQL	BPQL		6000
7-nexanone 7-rachloroethene	6820	BPQL	BPQL	7720	8.8%	1500
	BFQL	BPQL	BPQL	BPQL		1500
1 ,,2,2-Tetrachloroethane	3490	BPQL	BPQL	4160	12.4%	1500
Toluene	BPQL	BPQL	BPQL	BPQL		1500
% orobenzene	8780	1569	1850	8340	0.5%	1500
E wylbenzene	BPQL	BPQL	BPQL	BPQL		3000
Styrene	23,000	3360	6540	26,800	10.8%	3000
n-Xylene	25,000 35,500	4300	4300	32,100	7.1%	3000
o -Xylene	35,500 BPQL	BPQL	BPQL	BPQL		3000
1, J-Dichlorobenzene	BPQL	BPQL	EPQL	BPQL		3000
1,2-Dichlorobenzene		BPQL	BPQL	BPQL		3000
1 <sup></sup> -Dichlorobenzene	BPQL	Note 1	tht da	2,44		
		14/0 OF T				

3PA Method 8240, SW846, 3RD ED., Nov 1986 by Methanol Extraction.

3. L = Below Practical Quantitation Limit.

Note 1: A trace of Tetrachloroethylene detected at an approximate concentration of 330 ppb.

P. je 3 of 3

L: NT NAME: DDKESS:

IT LOCATION:

T NTION:

The JOHNSON Company

5 State Street

Montpelier, VT 05602

Fotohut, Rutland, VI Mike Pottinger

LABORATORY NO.: PROJECT NO.: DATE OF SAMPLE: DATE OF ANALYSIS:

DATE OF REPORT:

2-0089 78611

2/14/92

1/15/92 71/2 1/29/92

418.1 SOIL RESULTS

(Expressed as milligrams/kilogram [mg/kg] except as noted)

~	(Diago Como in	Qtration	PRACTICAL QUANTITATION LIMIT
	Location	<u>Concentration</u>	
_	SS-1 0-12"	1,000	30
	SS-1 2-3"	13,000	30
-	SS-2 0-12"	860	30
	SS-2 1.2-2.2"	580	30
_	SS-3 0-11"	1,500	30
_	SS-3 11-22"	BPQL	30

E 1 Method 418.1, SW-846, 3rd Ed., Nov 1986. BPQL = Below Practical Quantitation Limits.

Respectfully submitted

SCITEST, INC.

Roderick J. Lamothe Laboratory Director

F L/cha Page 4 of 4



ADDRESS: 5 State Street PROJECT NO.: 78611 Montpelier, VT 05602 DATE OF SAMPLE: 1/15/92 140 SITE LOCATION: Fotohut, Rutland, VT DATE OF ANALYSIS: 1/29/92 ATTENTION: Mike Pottinger DATE OF REPORT: 2/14/92

VOLATILE ORGANIC DATA FOR SOIL SAMPLES RESULTS IN MICROGRAMS/KILOGRAM (PPb)

45.	poonto in miomonamby minodram (ppp)	
		PRACTICAL
<b>─</b> IAD AMERED	SS 1	QUANTITATION
ARAMETER Thloromethane	<u>0-12"</u>	<u>LIMIT</u>
Bromomethane	BPQL	80
-Vinyl Chloride	BPQL	40
hloroethane	BPQL	40
	BPQL	40
riethylene Chloride	BPQL	40
Acetone	BPQL	80
richlorofluoromethane	BPQL	40
Jarbon Disulfide	BPQL	40
1,1-Dichloroethene	BPQL	40
-,1-Dichloroethane	BPQL	40
,2-Dichloroethene (Total)	BPQL	40
Chloroform	BPQL	20
1,2-Dichloroethane	BPQL	20
-Butanone (MEK)	BPQL	80
1,1,1-Trichloroethane	BPQL	20
Carbon Tetrachloride	BPQL	40
inyl Acetate	BPQL	80
romodichloromethane	BPQL	20
1,2-Dichloropropane	BPQL	20
-1,3-Dichloropropene	BPQL	20
richloroethene	BPQL	20
Dibromochloromethane	BPQL,	20
1,1,2-Trichloroethane	BPQL	20
enzene	$\mathtt{BPQL}$	20
ι-1,3-Dichloropropene	BPQL	20
2-Chloroethylvinylether	BPQL	40
comoform	BPQL	40
-Methyl-2-Pentanone (MIBK)	BPQL	80
2-Hexanone	BPQL	80
">trachloroethene	423	20
.1,2,2-Tetrachloroethane	BPQL	20
Toluene	48	20
Chlorobenzene	BPQL	20
:hylbenzene	BPQL	20
btyrene	BPQL	40
m-Xylene	BPQL	40
p-Xylene	BPQL	40
3-Dichlorobenzene	BPQL	40
1,2-Dichlorobenzene	BPQL	40
-4-Dichlorobenzene	BPQL	40
	<del>4</del>	-10

EPA Method 8240, SW846, 3RD ED., Nov 1986 BPQL = Below Practical Quantitation Limit. Note: Late eluting hydrocarbons including the chemical formulas Cally CoH16, & C10H20.

LuL/cha Page 1 of 4

(X) SCITEST

FEB 1 9 1392

THE JOHNSON CO., INC. MONTPELIER, VERMONT

LABORATORY NO.: 2-0089 The JOHNSON Company CLIENT NAME: 78611 PROJECT NO.: 5 State Street DDRESS: TMI 1/15/92 DATE OF SAMPLE: Montpelier, VT 05602 1/29/92 Fotohut, Rutland, VT DATE OF ANALYSIS: SITE LOCATION: DATE OF REPORT: 2/14/92 ATTENTION: <u>Mike Pottinger</u>

VOLATILE ORGANIC DATA FOR SOIL SAMPLES
RESULTS IN MICROGRAMS/KILOGRAM (ppb)

	RESULTS IN	MICROGR	AMS/KILOGR/	M (ppb)			
						Spike	PRACTICAL
_	S\$ 1	\$S 2	SS 2	SS 3	SS 3	SS 2	QUANTITATION
ARAMETER	2-3"	Q-12"	1.1-2.2"	0-11	<u>11-12"</u>	0-12"	LIMIT
Chloromethane	$\mathtt{BPQL}$	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$		<4000
<del>"r</del> omomethane	$\mathtt{BPQL}$	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$		<2000
inyl Chloride	$\mathtt{BPQL}$	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$		<2000
Chloroethane	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
Methylene Chloride	BPQL	BPQL	BPQL	BPQL	BPQL	93%	<2000
cetone	$\mathtt{BPQL}$	BPQL	BPQL	BPQL	BPQL		<4000
richlorofluoromethane	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$	BPQL		<2000
Carbon Disulfide	$\mathtt{BPQL}$	$\mathtt{BPQL}$	BPQL	BPQL	BPQL		<2000
7,1-Dichloroethene	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$	BPQL	BPQL	105%	<2000
,1-Dichloroethane	$\mathtt{BPQL}$	BPQL	BPQL	$\mathtt{BPQL}$	BPQL	82%	<2000
1,2-Dichloroethene (Total)	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$	$\mathtt{BPQL}$	BPQL	111%	<2000
<pre>←hloroform</pre>	BPQL	BPQL	BPQL	BPQL	BPQL	• • •	<1000
,2-Dichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	86%	<1000
2-Butanone (MEK)	BPQL	BPQL	$\mathtt{BPQL}$	BPQL	BPQL		<4000
1,1,1-Trichloroethane	BPQL	BPQL	BPQL	$\mathtt{BPQL}$	BPQL	101%	<1000
arbon Tetrachloride	BPQL	BPQL	BPQL	BPQL	BPQL	90%	<2000
.inyl Acetate	BPQL	BPQL	BPQL	BPQL	BPQL		<4000
Bromodichloromethane	BPQL	BPQL	BPQL	BPQL	BPQL		<1000
7,2-Dichloropropane	BPQL	BPQL	BPQL	BPQL	BPQL	82%	<1000
-1,3-Dichloropropene	BPQL	BPQL	BPQL	BPQL	BPQL		<1000
Trichloroethene	BPQL	BPQL	BPQL	BPQL	BPQL	100%	<1000
Pibromochloromethane	BPQL	BPQL	BPQL	BPQL	BPQL		<1000
,1,2-Trichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	81%	<1000
Benzene	BPQL	BPQL	BPQL	BPQL	BPQL	87%	<1000
t-1,3-Dichloropropene	BPQL	BPQL	BPQL	BPQL	BPQL		<1000
-Chloroethylvinylether	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
_romoform	BPQL	$\mathtt{BPQL}$	BPQL	BPQL	BPQL		<2000
4-Methyl-2-Pentanone (MIBK)	BPQL	BPQL	BPQL	BPQL	BPQL		<4000
T-Hexanone	BPQL	BPQL	BPQL	BPQL	BPQL		<4000
etrachloroethene	3550	BPQL	BPQL	BPQL	BPQL	102%	<1000
1,1,2,2-Tetrachloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	61%	<1000
Toluene	1500	BPQL	BPQL	BPQL	BPQL	95%	<1000
ılorobenzene	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$	87%	<1000
athylbenzene	5160	BPQL	BPQL	BPQL	BPQL	109%	<1000
Styrene	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
-Xylene	24700	BPQL	BPQL	BPQL	BPQL	140%	<2000
_,p-Xylene	27900	BPQL	BPQL	BPQL	BPQL	100%	<2000
1,3-Dichlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
4-Dichlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL		<2000
•	Note 1	-	Note 2			Note 3	

PA Method 8240, SW 846, 3rd Ed., Nov 1986. BPQL = Below Practical Quantitation Limits.



Note 1: Hydrocarbon peaks present includes CoHis.

te 2: Hydrocarbon peaks present included CoHia & CioH20

Lote 3: Spike level was 5500 ug/kg.

SAMPLE									NO.		/					X / /	/ ·		-
STA NO	<del> </del>	TIME	COMP.	ChAB		STA	ווסט דו	DCATION	TAINE				%)   	XX XX	"/			REMARKS	
	3/5	11/2		_	SPI	911_ ]	#3	-5-1B(-5	4	<u> </u>	$\frac{1}{}$	1/	<u>/_ \</u>	(*) 	/	<del>/</del>	<del></del>		<u> </u>
<u>੨</u> 3		9:52			Tan	14/1	1185	- 7'B6-5	4		IV	10	<u> </u>			<del></del>			
	2/6				TANI	KI WO	95T	9'B6-5	4		İV	1/	<u> </u>		<u></u>   		<del></del>		
4		1055		<b> </b>	Fre	e Proi	Bux+	- Tank 2	2	<del>-  </del>	<del></del>				<del>-                                    </del>	<del> </del>	<del></del>		,
5	2/6	1100			Free	? Prop	uct	TANKZ	2	<u> </u>	<del> </del>		V		<u> </u>	<del></del>		<del></del>	
					•					<del>j</del>	<del> </del>	<u> </u>		<del> </del> -	_ <u>-</u>	<del></del>	<del></del>		
							<u>`</u>			<u> </u>	·			<u>-</u> -	<del>!</del>			····	·
									(	7			<del></del> †	<del>-  </del>		•			
									j			<u> </u>	<del>-                                    </del>						
									j		i	<u> </u>		<del> </del> -			·		
·				<del></del> ‡	<del></del> -				• 10			<u>_</u>	<del>-  </del> -	<del></del>	<u>-¦-</u> ,				
					<del></del>							Ť		<del></del>	<del>-</del>				
<b></b>				<del>-</del> +	<del></del>				ı i			$\neg$	<u> </u>		<del>-</del>	<u> </u>			
				<del></del>			- 6			•			$\neg$	1	<u> </u>			<del> </del>	
elinguished	Dyi./Srg	(anner		<del>-</del> -	0,,,,	/Time	<del>                                     </del>		1	1_ 1					<del> </del>			· · · · · · · · · · · · · · · · · · ·	
		M	) <del>-</del>	2/1	,/92	15,50	1	Per My		Relini	quisha	id by:	(Signa	turej		Date	/ Time	Received by: /Sign	hature/
elanguished /		•			Date ,	/Time	Recen	ed by (Signature)		Relino	uishe	d by:	Signal	turej		Date .	/ Time	Received by: ISign	eture)
linguished	pA: 12**	naturel			Date	/Time	Receiv (Signan	ed for Laboratory	by:		Date /	Time		Rema					
	··						i sogman				Ì				4 K.3				
		-										<u> </u>		•		L			

Cilent/ rioject is	iairie	<b>—</b>	L			יוסטי עד	<u> </u>	<del></del>	7 ~	J.,,	<del>ال</del> رد	<del> </del>	· -	<b>F</b>
CHITTENS Project No.	en Bi	ANK /F	OTOHUT R	07/	411) 1 10.	<u>7</u>			THE LO	True contr	IALYSI	≣S <del>}</del> /		
Project No. / −63(	1>-1	(-1)	Field Log	jbook N	lo.				D	iafak, vy	THOIS.	r /		
Sampler: (Signa		$(\mathcal{C}_{\mathcal{A}})$	Chain of Cu	ustody	Tape No.									
Mit	1-11	·		·	·			[\Z]			/ /	/ /	/	
Sample No./	Date	Time	Lab Sample Number		Type San		/ &	8) (t	) }/				REMAR	ıks
B1	429/90	<u></u>	1782-90	151	166	<del></del>	1 K	17	( <u>-                                  </u>			T07	4 incles	7
BZ_	(-1/70		1				Y	×					Y cache	
B3							K	٦,				708	4 inelles	, 1
34	<del></del>						8	۶					4 cales	
P>5	1.77					· :	Υ	~				TOP '	tinus and	bolton
36							4	7				TOP	Yerkes	
B7							14	ر		<u></u>			netwo both	
B8	<u> </u>	<u> </u>		1	Date	Time	\ \rangle \rangle \rangle	ived by	(Signatur	e)		10174	Date	Time!
Relinquished by	r: (\$ignatur	e) 			ulzo	Ban	1	Juda		e j			1430	2ª
Relinquished b	y: (Signatur	re)			Date	Time	Rece	ived by:	(Signatur	e)			Date	Time
Relinquished b	y: (Signatur	e)		!-	Date	Time			Laborator	_	ture)		Date /	Time
							T	aineo	P Mor				12/3/20	102
Sample Dispos	al Method:	·			Disposed	d of by: (Sigi	natlure)						Date'	Time
SAMPLE COLL	ECTOR		<u>, , , , , , , , , , , , , , , , , , , </u>		ANALYTI	CAL LABOR	ATORY	,		· · · · · · · · · · · · · · · · · · ·	··········			J
5			N COMPANY, INC.				. •							
1		i ironmentats	elences and Engineering											<del></del>
	1) 229-4600 2) 229-5876													·
1100														
	<del></del>	<del></del>												<del></del>

1974-3-84

WHITE-To accompany sample to the lab and returned to the Johnson Co. YELLOW-Lab copy PINK-Transporter copy ORANGE-Sampler co

- 17 - - AMERICAN COPY CONTINUE - SAMPLE COPY

mpter: (Signalure) Chain of Custo	AND, VT					DECAN	<del></del> -/		7	
Lab Sample Sample No./ Date Time Number	Type Samp		//	<u>/ \\ \\ \</u>	/ <del>-                                    </del>				REMARK	S 
dentification Date 1702-20	SOIL		X	X			<del> </del>			
OT 2 U	(4		X	X				<del></del>		
DT Y	1,		X	又		_	-	- <del></del>		
OUT 5 "	'(		X	7			-	Stype	toot at	( c
None the	/ ( Date	Time	•		(Signatu	ıre)		_1,0,	Date 1430	1
Relinquished by: (Signature)	14 <sub>50</sub>	8Am.	Rec	ewed by	Signat	ure)			Date	+
Relinquished by: (Signature)		Time	Rec	eived fo	r Labora	tory: (Sig	nature	·)	Date/ 12/3/2,	+
Relinquished by: (Signature)	Date		1 _		nes P	Moni	<u> </u>	<u></u>	Date	-
Sample Disposal Method:		ed of by: (S								
	ANALY	TICAL LAB	ORATO	RY						
SAMPLE COLLECTOR  5 State Street THE JOHNSON COMPANY, INC.  Montpelier, VT 05802 Experimental Sciences and Engineering										
(802) 229-4600 Fax: (802) 229-5876									ORANGE.	

		F CUSTO	ODY REC	ORD		,					<u>`</u>   
hent Project Name  Bank - Foto Hutt	Rut on	and				7	AN	ALYSE	:s	_/	!i
oject No.    - 0342-    Chain of Cu		e No	<u> </u>	. <u></u> .	//	/ /					
	D -			_/	2 m	/ /	/ /	//			
Sample No./ Identification Date Time Number		Type o Samp			A 4)		_			REMAR	KS
5-10-12" 1-15-92 12:15 pm Z.0089-01	<del>'+</del>	60:1 0:1		X	<del>                                      </del>			िक्षा के अ	سريا د≟		
5-7 0-12" 1-15-92 2'00 pm 03	50	<u></u>		7 1	<u>                                   </u>			0 4			
35-2 12.22 1-15-92 2.00 pm 35-3 0-11" 1-15-92 3.30 pm	5 50	:]		Y X	X		4 5 3 O F	127.7	3.40	<u> </u>	
55-3 11"-22"1-15-92 330pm 00 Froundwater 1-15-92 11:00am 0		ater	:	X			-				,
Relinguished by: (Signature)		Date	Time 7 12:00	Rece	ived by: (S	gnature	}			Date	Tir
Jammy Jacques  Relinquished by (Signature)		Date	Time	Rece	ived by: (S	ignature	:)			Date	Ti
Relinquished by: (Signature)		Date	Time	•	wed for La	borator	y: (Sign	ature)		Date 1/17/92	7i 2 - 2
Sample Disposal Method:		Disposed	of by: (Sig	nafure	<del>7 -                                   </del>					Date	Ti
SAMPLE COLLECTOR			3 Cites		Y						
5 State Street THE JOHNSON COMPANY, INC.  Montpelier, VT 05602  [802) 229-4600		<i>c</i>	DOILES	. 7							
Tax: (802) 229-5876					. <u> </u>						<u>,,</u>

## HE JOHNSON COMPANY, II

Environmental Sciences and Engineering 5 State Street, Montpelier Vermont 05602

> Phone: (802)229-4600 FAX: (802)229-5876

### FACSIMILE COVER PAGE May 12, 1992 11.58

TO:

Mr. Bill M<sup>c</sup>Cambridge

COMPANY:

AMREC®

FAX #:

(508) 248-7701

TELEPHONE #:

(508) 248-3777

JCO #:

1-0342-1

PHONE CODE:

597

FROM:

Hugo Martinez Cazon

NUMBER OF PAGES, INCLUDING COVER PAGE: 14

Please call Harriet if there are any problems with this transmission.

	~	$\alpha \alpha$		$\sim$	•
M	Ю.	SS	Α	۲	К

Dear Bill,

Here's an explanation of the "Station ID" remarks on the labsheets. X1 represents a composite sample from the roll-off containing soils from Tank 1. This is the sample used by TWM, Inc. to characterize the waste. X2 represents a composite sample collected from the roll-off containing soils that surrounded tanks 2 and 3. X4 represents the contents of tanks 2 and 3. X4 in the labsheets seem to be the sample identified as X3 in the Chain of Custody form, attached.

Michael has not signed the enclosed copy of Attachment 1, he thinks it more appropriate that the Generator sign this form. I am wondering if this unsigned form is enough, along with the analytical results, to initiate the MA-DEP approval process. Please let me know if I can be of further assistance or call Mr. Michael Pottinger, Project Manager at (802) 229-4600.

Sincerely,

THE JOHNSON COMPANY, INC.

Hugo Martinez Cazón

Project Engineer

Reviewed by: hmc J:\PROJECTS\1-0342-1\AMREC1,FAX May 12, 1992 12.20 mhp

W/W.



## ATTACHMENT 1

GENERATOR PREQUALIFICATION INFORMATION PURSUANT TO DEP POLICY #WSC-400-89

225 Turnpike Road Southberough, MA 01772 (508) 624-7006 Fax (508) 481-5393 Ptant: 130 Route 20 Charton, 5tA 01508 (505) 245-3777 Fax (505) 248-7701

113 COMMITTER 1454 Parking (1) 11 (2002) 6 (151) (0) (16 (11)

April 2, 1993 SAMPLE DATA

25551-02 LES \$1 . Soil 超alrixi

70 Percent Solio:

Dilotted Pastort 1 Collection Date: 3/17/92

Lab Receipt Date: 2/17/92

Extraction Date: 3/19/92 3/25/52 Analysis Date:

142 River Road Newington. KH 03801

CLIENT SAMPLE ID Client Project: Chiumdon Bank, Ruland, YT

Project Number: 1354 KS

Station ID:

Mr. Todd Johnson

Total Weste Mercegament

XI = TANK 1

ANALYTICAL RESULTS SEMI-YOLATILES

PAGETWO

<del>-</del>	ection nit: µg/kg	Results µg/kg	COMPOUND	Deletica Limit: p	å∖Ķ <b>å</b>	Results FE/KE
BASE NEUTRAL CO	MPOUNDS:					
Acensphthana	300	ND	N-Niposodi-n-propyl		300	ND
Acenaphthylene	300	ND	N-Nitrosodiphenyler		300	ND
Anthrache	300	ND	Pyridins		300	ND
Benzo (a) anthrecens	390	<300	2-Methylnsphthalene		300	1064
	300	<300	2-Chioronaphthaicne		300	ND
Benzo (a) pyrene Benzo (b) fluorenthen		<300	Naphthalena		300	3321
		ND	Biphenyl		3(13)	KD
Benzo(g,h,i) porylene	=	<300	Benzo (e) pyrone		300	ND
Benzo (k) រាបធាខារវ៉ានា	300	343	Penylone		300	ND
Chrysens		ND	Franchische		300	335
Dipeuxo (s'h) sugnac		<300	Diberzofurza		300	KD
Fluorenthano	300	\D \Z	Analina		300	HD
Pluoreno	300	ND CN	4-Chloroaneline		100	ND
Indeno (1,2,3-cd) py:	mene 300	335	2-Ninoensite		300	ND
Pyrena	300		3-Misosociica		300	ND
Hexabilorochura	300	ND	4-Nitroenelins		360	ND
Isophorone	300	ZD.	<b>売び付きを取ります</b>			
N-Nimosodimethylan	nins 300	\D				
	Besa Nei	Hral Surto	cele Elenderd Reco	<u> Keer</u>		
dS-Nipobenzare	104 %	2-Fluorobij	ohenyl 94%	di4-p-To	ואניבולני	55 %
ND= None Demons	:d <=Lcss	ikan >	=Greater than PR=	Present b	ಜ ೧೦೩ ಣಾಗಿ	ित्रधान्त्र रिक

METHODOLOGY: Weter sample analysis was conducted according to "40 CFR part 136, EPA Hechod 625," and salar metrices were enthysed eccording to "Test Methods for Evaluating Solld Witter, SW-S45 Method 8270."

Delection limit increased due to cliution factor. Resulte are expressed co a dry COMMENTS: weight beite.

> Karres Witterson Librury Direct

Lab 8:

1

Mr. Took johnson

142 River Road

Kawingum.

Total Wests Ment Jement

Client Projecti

192 Carrows Wey ಕ್ಷಮೂರುಗಾಗಿ ಚಿತ್ರಗಳಿಯಾರುಗಡೆ ಮತ್ತು 651-225-5111

April 2, 1992

SYMPLE DATA 28651-02

Soll Hatrix: Percent Solid:

3/17/92

Lab Remipt Date: 3/17/92 Extraction Date: 3/19/92

Dilution Pactor: Collection Dato:

. Project Number: 1554 KS

KH 03801

Chitundon Bunk, Rullens, VI

2.6-Dinimotoluem⇒

Hexachlerobutadiens

Dimethyl phthulate

Di-n-buryl phineles

Di-n-octyl phihaleto

Bis (2-ethylhexyl) phthalata

Nitrobenzena

CLIENT SAMPLE ID

Station IDi XI			Extraction I Analysis De		3/19/92 3/25/92	
. W.	LYTICAL RE	ESULTS	SEMI-VOLATILES			PAGE ONE
COMPOUND	Detection Limit: µg/kg	Rosuli: µg/kg	СОМРОИНО	Deixei Limit:	hβ\ <b>κ</b> δ ∞υ	हळाडी इस्रोइच्
ACID COMPOUNDS:  2-Chlorophenol  4-Chloro-3-methylphenol  2,4-Dichlorophenol  2,4-Dinitrophenol  4,6-Dinitro-2-tizthylphenol  2-Nitrophenol  4,6-Dichlorophenol  4-Nitrophenol	300 300 300 300 300 300 300 300 300	888888888	Pemzehlorophenol Phenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Benzoic Acid m-Cresol o,p-Cresol Eczyl sicciol 2,3,4,6-Teurschloroph		1000 300 300 300 300 300 300 300	888888888
2,4,5-Tribromophenol		Surropalo 2-Fluoro	Standard Bosovery phonol 72%	d:	S-Pinenol	84%
BASE NBUTRAL COM 1,2-Dichlorobenzens 1,3-Dichlorobenzens 1,4-Dichlorobenzens 2,4-Dinigratoluens		98888	Hexschlorobenzene Benzidine 3,3'-Dichlorobenzidine Azobenzene Bis (2-chloroethoxy) m	enshis	390 2000 2000 300 300	

1,2,4. Trichlorobenzene PR Presons bus not celibrated for >=Greater than <=Less then ND= None Detected METHODULOGY: Weter semple enelysis was conducted executing to "40 CFR pur )36, EPA Morbod 625," and other metrics were enalyzed according to Tex Methods for Evaluating Solid Water, Sty 846 Method 8270.

Bis (2-chloroethyl) sthat

Butyl benzyl phthalate

Disthyl photeletic

Bis (2-chloroisopropy)) other

4-Bromophonyl phonyl citer

4-Chlorophenyl phenyl ether

Haxachlorocyclopentalions

ND

ND

ND

ND

ND

ND

ND

300

300

300

300

300

300

300

Kerrot M. Taria Laboratory Director

300

300

300

300

300

300

300

ND

KD

ND

ND

ND

ND

ND

195 Commerces Work Porturbura, Neve horroxide Well 522425-5111

Mr. Todd Johnson

Total Wasto Menagement

142 River Road

Newington,

NH

03801

Chittendon Bank, Rutland, VT Client Project:

Project Number: 1554 KS

Station ID:

X1

April 2, 1992

Lab #:

Matrix:

Soil

28661-02

78 Percent Solld: Dilution Factor:

Collection Date: 3/17/92

Lab Receipt Date: 3/17/92 Extraction Date: 3/19/92

Analysis Date: 3/25/92

# TOTAL PETROLEUM HYDROCARBON ANALYSIS

Sample	Result	Units	Detection Limit
28651-02	230	<i>ជាដូ</i> /វឌ្គ	Ĭ

ND denotes none detected.

Methodology: Water samples were prepared by Separatory Funnel Liquid/Liquid Extraction, EPA Method 3510; other matrices were prepared by Soxhlet Extraction, EPA Method 3540. All metrices were enalyzed according to "Test Methods for Evaluating Solid Waste, SW-846 Method 8100."

Comments:

Results are expressed on a dry weight basis. Chromatographic fingerprint is indicative of 6 mg/mi #2 fuel oil and 224 mg/kg kerosene.

Laboratory Director

SENT BY:

4- 3-82 (10:224M )

603 436 0154-803 431 3806

:# 3

10) Commorpe Work Forkstack, New Homostics 6350 603-458-5111

April 2, 1992

SAMPLE DATA Mr. Todá Johnson 28651-01 Lab á: TOLE Waste Management Soil Matrix: 142 River Ress . Percent Solld: 78 Newlagion, NH 03801 Dilution Pactors 100 CLIENT SAMPLE ID Collection Dater 3/17/92 Chinandon Bank, Ruikerd, YT Client Project: Leb Receipt Dale: 3/17/92 Project Rumber: 1884 KS Analysis Datet 3/20/92 Station ID:

ANALYTICAL PROBLES VOLATILE ORGANICS

COMPOUND Defection	μE/kg	Result Pg/kg	COMPOUND	Detect Limit	hā/Kā ļow	Result µg/kg
Vinyl chlorida	500	ND	Ethylbenzena		500	< 580
1,1.Dichlarachene	500	ND	m-Xybra		<i>\$</i>	1734
1,2.Dichloroethene (cls or wens)	500	ŒИ	o&p-Xylens		సు	2090
Trichlorochero	500	ND.	Mothyl t-butyl other		500	CO/
Tershirostess	ંડદળ	< 500	m-Dichlorobonzena		50O	Œ
Chlaromethere	500	ND	anterestable of the least of th		প্ৰ	G:
Methylene chloride	550	ND	p-Dichlaroberrare		530	Ę.
Chlaroform	500	Œ:	1,2-Dichleropopus		500	スツ
Carbon setraphlorida	500	<b>.</b> 53	cit-1,3-Dishlarquape	ະຄອ	520	ND
Bromodichlaramethers	500	ND.	rans-1,3-Dichloropro		500	ND.
Distancehistatiete	500	100	2-Chlorosthylviny) o	lar	1:00	急
Branomatiza:	50r)	ND	ALMONA		1500	YD
Chlorosthero	560	CA.	Methyl ethyl ketora		1000	KD
1,1-Dichlorosthans	553	ďΛ	Mathyl bobulyl keto	ಗತ	1000	KD.
1,2-Dichloropitate	503	SD.	Dichloradifivaroned		550	$\mathbb{G}$
1,1,1-Trichlorositens	500	€:	Trichicrofluxocasha	ಪಡೆ	ध्य	GK.
1,12-Trichloroschene	500	<i>'</i> ©	7ಚಾಗ್ರಿಯಂಗುತ್ತಾ		1500	GK.
1,122-Tetrachlorosthera	500	GK	Ş(y <del>raxə</del>		500	MD
Chlorobenzera	500	50	Certion displica		$\infty$	КD
Bromodorn	500	ND.	Vinyl access		1500	CCA.
Benzes	500	C/,	2-Hextrons		1000	J.D.
Tolueno	CO2	ND				

Bromoffucrobanzana 63-Taiwas d4-1,2-Dichlaroathans PR-Present but not callbrated for <ಿರ್ಮಿಕ ಬೇಡಿ ⇒ಿರಿಗಡಚಿತ ಬೇಟ ND. None Destruct

METHODOLOGY: Water cample analysis was conducted according to "40 CFR Part 136, EPA Method 624" and other matrices were analyzed executing to "Test Methods for Evaluating Solid Wests, SW-846 Method 8240." COMMENTS: Detection limits increased due to dilution factor. Results are expressed on a dry

weight basis. . The surrogates were diluted out.

SENT BY:

4- 3-92 :10:24AM :

503 435 0154-603 431 3805

# 8

Sound of the second of the sec

11:2.

193 Commerce Way Post mouth, New Kompatite Will 603-436-5111

Mr. Todd Johnson

Total Waste Management

142 River Road

Newington,

NH 03801

April 2, 1992

Client Project:

Chittendon Bank, Rutland, VT

Project Number:

X1

Station ID:

1554 KS

Lab #: 28651-02
Matrix: Soil
Collection Date: 3/17/92
Lab Receipt Date: 3/17/92
Analysis Date: 3/20/92

FLASH POINT ANALYSIS

Sample

Result

28551-02

>160 degrees Pubranheit .

Methodology: Sample analysis was conducted according to "Test Methods for Evaluating Solid Waste, EPA SW-846, Method 1010."

Comments:

Authorized signature

Kenneth W. Toegus Lebonary Décara

155 Countains Nay Forestouth, field Address 44 CO. 조사:25년111

CLIENT SAMPLE ID

April 2, 1992

SAMPLE DATA

Client Project: Chittendon Bank, Rutland, YT

Leb #:

28651-02

Project Number: 1554 KS

Matrix:

Soft

Station ID:

TCLP

Extraction Date: 3/24/92

ANALYTICAL RESULTS

TCLP

SEMI-VOLATILE EXTRACTION DATA:

# Preliminary sample evaluation:

The initial pH of the sample was greater than 5.00. After the appropriate treatment with HCL and hear, the pH was remeasured. If the pH of the sample was less than 5.00, then extraction fluid #1 was used. Extraction fluid #1 is 5.7 ml glacial acetic acid, 63.4 ml of 1N NEOH, diluted to one liter with deionized water resulting in a pH of 4.93 ± 0.05. If the pH was greater than 5.00 efter treatment, extraction fluid #2 was used. Extraction fluid #2 is 5.7 ml glacial acetic soid diluted to one liter with deionized water, resulting in a pH of  $2.88 \pm 0.05$ .

EXTRACTION PROCEDURE DATA:

Initial pH

7.35

pH After Treatment

1.15

Final pH

5.16

TCLP Solids

100 %

Total Weight Extracted

100 Basus

Total Extraction Time

18 hours

METHODOLOGY: EPA Federal Register Vol. 55, No. 126; June 29, 1990.

Authorized signature

Kennedy W. Tearus Laboratory Director Station ID:

SENT BY:

4- 3-92 :10:24AM :

603 436 0154~603 431 3808

XI

196 Commerce Wor Paternoum, New Hornovie 032 603-434-6111

:# 5

April 2, 1992

SAMPLE DATA No. Took Johnson 28661-02 Lab fit Total Waste Management. Soil Meirlet 142 River Road 78 Percent Solld: NH 03801 Newington, 10 Dilution Factor: Collection Dafet 3/17/92 CLIENT SAMPLE ID Lab Receipt Date: 3/17/92 Client Project: Chittendon Bank, Rutland, VT Extraction Dates 3/20/92 Project Number: 1554 KS Analysis Date: 3/28/92

> PESTICIDES & PCB'S ANALYTICAL RESULTS

COMPOUND	Detection Limit µg/kg	Result µg/kg	COMPOUND	Detection Limit µg/kg	Result µg/ki
	103	ND	Endrin Aiddhydd	100	KD)
Aldrin	100 100	KD KD	Hक्कास्त्रोध्य -	100	Œ
s-BHC	100	Ω Ωλ	Hapteshice Epoxida	100	HD
5.11.FC	100	KD	Torestore	100	CH.
C-BHC	183	G:	Kathoxycblot	100	<b>₹</b> D
g-SHC (Lindero)	:₩ 1	GN GN	PCB-1016	100	KD
<u> </u>	100	ND	PCB-1221	100	KD
4,4'-DDD	100	ND	PCB-1232	100	КĐ
4,4'-DDE		ND	PCB-1242	100	Œ
4,4'-DDT	! <b>0</b> 0	GK	PCB-1248	100	Œ.
Distarin	100	C.	PCB-1254	100	ND
Fráceulien I	100	ND	PCB-1250	100	KD
Endowlen II	100		PCB-1252	100	KD
Endowilth Stills	100	ND	المنظر - بن ا	. • • •	
ವೀರ್ <b>ು</b>	100	ND.			
NDaNone Detected	<=[.exq that	n >≠Otesto	then PR*Pressibu	t not calibrated	1 for

METHODOLOGY: Weler sumple analysis was conducted according to "40 CFR Part 136, EPA Method 603" and ell other mutrices were analyzed according to "Test Methods for Evaluating Solid Waste, 5.0000 bortus 248.W2

COMMENTS: Detection limits increased due to dilution factor. Results are expressed on a dry weight beele.

Authorized signature

SENT BY:

4- 3-82 :10:28AM :

603 436 0154-603 431 3698

14 4

15% Consideron Mos Federmorn, Hew Hompette Citi 503-43-5111

April 2, 1992

Mr. Todd Johnson Total Waste Management 142 River Road NH 03801 Newington,

CLIENT SAMPLE ID Client Project: Chillendon Benk, Rullend, YT

Project Number: 1554 KS XI.

Stallon ID:

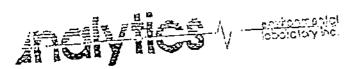
SAMPLE DATA 28661-02 Lab #: Soll Mairixt 78 Percent Sollds Dilution Factors 3/17/92 Collection Date: Lab Receipt Date: 3/17/32 3/20/92 Extraction Date: 4/1/92 Anglysis Dafer

ANALYTICAL RESULTS CHLORINATED HERBICIDES

COMPOUND	Detection Limit μg/kg	Result µg/kg
	100	ND
Dichloroprop	100	
Dalapon	100	ND
2,4-D	100	ИD
2,4,5-TP	100	ND
2,4,5-T	100	ND
Dicamba	100	ND
MCPA	100	ND
MCPP	100	ND
2,4-DB	100	MD CO
TD-None Descend <=L	on then >-Greeter then	PR=Present but not callbrated for

METHODOLOGY: Weter temple enelysis was conducted recording to 740 CFR Part 136. EPA Mothed 615," and other morrious were analyzed according to "Text Methods for Evaluating Solid Waste, 5W-846 Method 8150.

COMMENTS: Detection limits increased due to dilution factor. Results are expressed on a dry weight beid.



11:15

ائن الا فتحميمين المناز Portyrouth, New 18070 At 8 18471 اللامدين

April 3, 1992

SAMPLE DATA 28551-04 Mr. Todd Johnson Lab Fi Total Wests Menagement Soll Metrixi 43 Percent Solidi 142 River Road Dilution Factor: NH 03801 2520 Newington, Collection Dafe: 3/17/92 CLIENT SAMPLE ID Chillendon Benk, Rullend, VT Lab Receipt Dule: 3/17/92 Cilent Project: X4 Tenk sludge drums Think 2+3 contents 4/2/92 Analysia Dates Project Number: 1554 X3

Station ID: X4	Lrux sings and a		TOT LOTT I	ORGANICS	
		L RESUL	TS VOLATILE	Detection	Result:
COMPOUND  Vinyl chlorids  1,1-Dichloroethene  1,2-Dichloroethene (cls or Trichloroethene Tetrachloroethene	126000 126000 126000 126000 126000 126000 126000	HEIRE NO	Edylbenians o-Xylans map-Xylans Methyl i-buryl other m-Dishlorobenians o-Dishlorobenians	126000 126000 126000 126000	ND ND ND ND ND ND ND ND ND
Chloromethene Methylene chloride Chloroform Carton teurchloride Bromodichloromethene Dibromochloromethene Bromomathene Chloroethene 1,1.Dichloroethene	12600 12600 12600 12600 12600 12600 12600 12600	85555555555	p-Dichlorobenicis 1,2-Dichloropeopen cis.1,3-Dichloropeo uras.1,3-Dichloropeo uras.1,3-Dichloropeo 2-Chlorophylvinyl Accord Hethyl chyl beura Methyl lebulyi bu Dichlorodiffurrome Trichlorofluorome	13500)  12500)  12500)  12500)  125000  225000  225000  225000  225000  225000  225000  225000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
1,1:1-Trichlorositus 1,1:2-Trichlorositus 1,1:2-Trichlorositus 1,1:2-Trichlorositus Chlorobonum Bromoform Bonnos Toluste	12600 12600 12600 12600 12600 12600	888888	Tarehydrofiren Slyrand Cerban disulfide Vinyl eccreta 2-Hexenora	37800 12600 12600 37800 25200	8

# Surrogate Standard Recovery

Bromofluorobeazens \* % 68.Taluere d4-1,2.Dichlarouthans PR-Prosent but not calibrated for > "Closter then c-Loss then

METHODOLOGY: Water sample analysis was conducted according to "40 CFR PER 136, EPA Method 624"

and other matrices were snalyzed according to "Test Methods for Evaluating Solid Wasse, SW-846 Method 8240." COMMENTS: Defection limits increased due to dilution factor. Results are expressed on a dry weight basis. "The surrogates were diluted out. Dilution necessered due to excessive forming. Dilution necessary due to a nonjarge

Authorized signature

كالمعالية المناسكة LABOR HETY DEVOLOT 60%

115 Contrains Way Portrauth, New Horocite 01801 603-435-5111

Mr. Todd Johnson Total Wasto Management 142 River Rosd NH 03801 Newington,

CLIENT SAMPLE ID Chittendon Bank, Rudand, VT Client Project:

Project Number: 1554 KS

x2 = 5/2000 101/176 Sigilon ID:

EAMPLE DATA 2851-03 Lab #: Soil Mairlx: 82 Percent Solidi 10 Dilution Pactors 3/17/92 Collection Date: 3/17/92

April 2, 1992

Lab Receipt Date: 3/21/92 Extraction Date: Analysis Dater

3/28/92

ANALYTICAL RESULTS POLYCHLORINATED BIPHENYLS

COMPOUND	Detection Limit  µg/kg	Result µg/kg
	100	КD
PCB 1016		ND
PCB 1221	100	ND
PCB 1232	100	
PCB 1242	100	ΚD , C
PCB 1248	100	ND
PCB 1254	100	ND
PCB 1260	100	ND
PCB 1262	100	ND
	es then >=Orresor then	PR=Present but not calibrated

METHODOLOGY: Water comple analysis was conducted according to "40 CFR Part 136, EPA Method 608" and other matrices were analyzed according to "Test Mathods for Evaluating Solid Wasta, SW-846, Mathod 8080.

COMMENTS: Detection limits increased que to dilution fuctor. Resulta are expressed on a dry weight basis.

Authorized signature

Kornett W/Teapu Laboratory Director

683

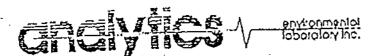
SENT BY:

4- 3-92 (10:27AM )

603 436 0154-603 431 3806

.1 3885

:#10



195 Controrce Way Ponemouth, New Horrow's CUS 603-436-5111

April 2, 1992

SAMPLE DATA Mr. Toold Johnson 28661-03 1.ab #: Total Wasto Management Soll Matrix: 142 River Road Percent Solld: 82 NH 03801 Newington, Dilution Pactor: 100 CLIENT SAMPLE ID 3/17/92 Collection Date: Chillention Bank, Rulland, YT Client Projecti Lab Receipt Date: 3/17/92 Project Number: 1554 KS 3/20/92 Analysis Datet X2 Station ID:

ALVEICAL RESILES VOLATILE ORGANICS

	Defection Limit		Result µg/kg		Defection Limit ug/k	Result
<u> </u>		500	ΦM	Ethylberizano	500	7831
Vinyl chlorida		500	ND	m-Xylene	500	39365
1,1-Dichlorocthens	toene)	500	ND	o&p-Xykno	500	52513
1,2 Dichleroschene (cis or	(simila)	500	סא	Mothyl t-butyl other	500	ND
Trichloroethens		500	ND	m-Dichlerobenizate	500	KD
Teredilocophens	<u> </u>	500	ND	n-Dichlorobergens	500	KD
Chleromethana		500	ИD	p-Dichlorobenzane	500	RD
Methylana chlorida		500	GK	1.2-Dichloropropero	· 500	KD (C)
Chloroform		500	KD GK	cls-1,3-Dichloropropor	10 500	УD
Certon tetrachioride		500	ND	mas-1,3-Dkhloroprop		СИ
anadistrior mathematical E		5₩ 5₩	ND CM	2-Chlorochylvinyl ध		KD
Dibromochloromothers			מא	Acciona	1500	КD
Bromomethers	-	500 600	Dא	Methyl sthyl ketono	1000	Œ
Chlorociture .		500	טא סא	Methyl Isobutyl kelon	n 1000	CDS
1.1-Dichlorocthano		500	מא	Dichlorodilluoromethe		
1,2 Dichiomethers		500	מא מא	Trichloroflucrometa	<del></del>	
1,1,1-Trichlorochens		500	מא	Teleshydrofuran	1500	
1,1,2-Trichlorowhene		500	מא מא	Styrens	500	GN.
1,1,2,2-Turachloroether	3	500 500	ND.	<u> ೧೯५೦೦                                  </u>	500	ND.
Cylolopotazate			ND ND	Vinyl accepts	1500	שא
Eromoform		500 500	ΝD	2-Hexanons	1000	
Benzero		500	אָט מא	a a parta por .		
Toluche		500	1415			

•					
d4-1,2-Dichlacociheno	* 4%	d8-Toluena	• %	Bromoduorobenzene	* %
ND-None Detected	<-Less the	in >=Ortaler l	الجار	PR-Present but not callbrated for	
Managed Stranger	•				

METHODOLOGY: Water sample analysis was conducted amording to 740 CFR Part 136, EPA Method 624" and other matrices were analyzed according to "Test Methods for Evaluating Solid Warte, SW-845 Method 8240." COMMENTS: Detection limits increased due to dilution factor. Results are expressed on a dry weight basis. The surrogates were diluted out.

LABORATA Analytics A A.O. Box 4 foctsmouth 603) 436-5	Envir 133, 11 15, NF	omm 95 Ca	отинетсе	ocatory	142 R	Waste Ma Weste Ma Gree Rd, rigion, NH 431-2420	<b>93801</b>	•				(Gas Tanks)	1000 0010 -	Tanky)	(Oll Tanks)	Sample Container Requirements.  Test Onactive Type Sample Type  8010  Mod 8020  1 2 oz jet soukou  Mod 602  2 Vraha water  8240  1 2 oz jet soukou  water  8240  2 viula water
OUECT 1554  AMPLER ATION PL MISER &	KS T	TWE Y	- But		Аюч	Jysies optob	Math: 1*Water,2*Soll 3*Oll, 4*Other	Pracrystion: 1=100 2=HNO3, 3=01361	Number of containers.	MTS Testing	EPA 8010 Soil, (Rebuttat)	Modified 8000/602 BTEX, TPH, Gasoline Standard	RPA 82403011/624 Water,	8020 soll/602 which (Old T btex & Mybe	ligh Resolution) Il Standsird, Typ	8020 1 2 oz jar solloil 602 1 Viels water 1 PH High Res. 1 feer boule water 1 MIS Samples (2 8 oz jar soll 1 2 oz jar soll 2 oz jar soll 4 Vials must be used. Containers larger than 2 oz stay be used. Fill all complexely. Containers directly.
3/27	į		Rou	770		61-02	2	A-00	3	X						REMARKS
2 1/2	$\top$		ROLL # 2	ofe	236	61-03	Z		l	1			X			REMARKS
3/11/	1/42			SWOGE ns	280	,61-04	2		)				X			REMARKS X3 Sarkple Michael wi headopace 60 REMARKS
										i :						REMARKS
																REMARKS
ELINQUISI	HED I	ву		Date 21 1.	Tianc	RECTIVE	PBK)		1	in Editor	VIENE	) X		Paris 17 /-	Тиж	RECEIVED BY
ETMÓNTZ K 200	ALED FLVV			3/17/92 Daic	Тінк	RECEIVIO	BY	<u>~</u>	- 1	SELINO	USHED	BY .		Date .	Time	RECEIVED BY
					<u>-</u>	SIGMON	OR CADORA!		1	REQUE	onnai Riconni	) ·	Linci	v P.O. t	(m=\x:=:_	1554 KS

TOTAL WASTE MANAGEMENT

683

.1 3886

P. 01

### LABORATORY REPORT

CLIENT NAME: Johnson Co.

BITE LOCATION: Chittenden Bank/Fotohut

LABORATORY NO: 1702-90

PROJECT NO: 78611

-ATTENTION: Hike Pottinger

)

-ATTENTION: 131 ROLLEGE BANKS	······································	. — —			<u>B</u>	<u>.5</u>
	B - 1	B - 2	<u>B - 3</u>	B - 4	TOP	<u>Rottem</u>
PARAMETER	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$
_Chloromethane	BPQL	BPQL	BPQL	BPQL	$\mathtt{PPQL}$	$\mathtt{BPQL}$
Bromoform	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$
Bromomethane	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
Dibromochloremethane	BPQL	BPQL >		BPQL	$\mathtt{BPQL}$	$\mathtt{BPQL}$
Vinyl Chloride	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
2-Chloroethylvinyl Ether	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$	$\mathtt{PPQL}$
Chloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
-Methylene Chloride	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
Trichloroethylene	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
Trichlorofluoromethane	BPOT	BPQL	BPQL	BPQL	BPQL	BPQL
_1,1-Dichlorethene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,1-Dichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
c or t-1,2-Dichloroethylene	BPQL	BPQL	PPQL	BPQL	BPQL	BPQL
Chloroform	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
1,2-Dichlorosthane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,1,1-Trichlorcethana	Bbor	BPQL	BPQL	BPQL	BPQL	BPQL
Carbon Tetrachloride	BPQL	EPQL	BPQL	BPQL	BPQL	BPQL
- Bromodichloremethane	BPQL	EPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
1,2-Dichloropropane	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
t-1,3-Dichloropropene	BPGF	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
_ c-1,3-Dichloropropene	BPQL	BPQL	BPQL	BPQL	PPQL	$\mathtt{BPQL}$
1,1,2,2-Tetrachloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,1,2-Trichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	$\mathtt{BPQL}$
_ Tetrachloroethylene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
Benzene	6F&0 4	5	112	BPQL	10	2073
Toluene	BPQL	BPQL	BPQL	BPQL	11	1590
Ethylbenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
- Chlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,4-Dichlorobenzene		BPQL	BPQL	BPQL	BPQL	BPQL
1,3-Dichlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
_ 1,2-Dichlorobenzene	BPQL	26	110	BPQL	61	2410
Xylenes	80 1518	296	3335	BPQL	436	115000
Total Aromatics as Xylene	2.5	1.9	1.8	3.1	2.1	691
QL Raised by Factor of:	2.5 80.6%	78.1%	81.5%		84.3%	75.5%
7 % Solids	Note1	Note1	Note1	92	Note1	Note1
	Morer	MOCSI	110 03 T			

- EPA Method 8010 & 8020; All results reported as ug/l or ppb as dry weight.

BPQL = Below Practical Quantitation Limit.

5 ppb for Bromoform, 2-Chloroethylvinyl Ether, & Methylene Chloride

1 ppb for All other parameters, 10 ppb for Total Aromatics.

Note 1: Many unknown late eluting Aromatic or Alkene peaks found.

RECEIVED

JAN 82 1991

Page 1 of 3 RJL/cha



Respectfully Submitted,

SCITEST, INC.

Roderick J. Lamothe Laboratory Director

### LABORATORY\_REPORT

CLIENT NAME: Johnson Co.

SITE LOCATION: Chittenden Bank/Fotohut

LABORATORY NO: 1702-90

PROJECT NO: 78611

DATE OF SAMPLE: 11/29/90
DATE OF RECEIPT: 12/3/90
DATE OF ANALYSIS: 12/5/90
DATE OF REPORT: 1/16/91

ATTENTION: Mike Pottinger B - BB - 7ROTTOM Near Hol TOP BOTTOM  $T\Omega P$ B - 6PARAMETER BPQL **EPQL** BPOL BPQL BPQL BPQL Chloromethane **BPQL** BPQL BPQL  $\mathtt{BPQL}$ BPQL BPQL -Bromoform BPQL BPQL BPQLBPQL BPQL BPQL Bromomethane BPQL BPQL  $\mathtt{BPQL}$ BPQL BPQL BPQL Dibromochloromethane BPQL BPQL BPQL BPQL  $BPQL_{i}$ BPQL : \_Vinyl Chloride BEGL  $\mathtt{BPQL}$ BPQL BPQL BPQL 3 BPQL 2-Chloroethylvinyl Ether BPQL BFQL  $\mathtt{BPQL}$ BPQL BPQL BPQL Chloroethane BPQL BPQL **BPQL** EPQL EPQL EPQL Methylene Chloride **EPQL** BPQL  $\mathtt{BPQL}$ BFQL BPQL BPQL ~ Trichloroethylene EPQL BPQL BPQL **BPQL** PPQL BFQL Trichlorofluoromethane PPQL EPQL BPQL BPQL BPQL PPQL 1,1-Dichlorethene BPQL BPQL  $\mathtt{BPQL}$ BPQL EPQL BPQL - 1,1-Dichloroethane **BPQL** BPQL BPQL  $\mathtt{EPQL}$ BPQL BPQL c or t-1,2-Dichloroethylene BPQL BPQL BPQL BPQL BPQL BPQL Chloroform **EPQL**  $\mathtt{BPQL}$ BPQL BPQL BPQL BPQL \_ 1,2-Dichlorcethane EPQL BPQL BPQL BPQL BPQL EPQL 1,1,1-Trichloroethane BPQL BPQL BPQL BPQL BPQL EPQL Carbon Tetrachloride BPQL BPQL BPQL BPQL BPQL BPQL Bromodichloromethane EPQL BECT BPQL BPQL **EPQL** BPQL 1,2-Dichloropropane BPQL BPQL BPQL BPQL PPQL BPQL t-1,3-Dichloropropene BEGL BPQL BPQL BPQL BPQL BPQL c-1,3-Dichloropropene PPQL **BPQL** BPQL BPQL BPQL BPQL - 1,1,2,2-Tetrachloroethane BPQL BPQL BPQL EPQL BPQL BPQL 1,1,2-Trichloroethane BPQL BPQL  $\mathtt{BPQL}$  $\mathtt{BPQL}$ BPQL BPQL Tetrachloroethylene **BPQL** BPQL BPQL BPQL BPQL BPQL \_ Benzene 2120 211 PPQL 3170 BPQL 12300 Toluene 2500 BPQL BPQL 3850 BPQL 1400 Ethylbenzene PPQL BPQL EPQL BPQL BPQL BPQL Chlorobenzene EPQL BPQL BPQL EPQL BPQL BPOL 1,4-Dichlorobenzene BPQL BPQL PPQL EPQL **EPQL**  $\mathtt{PPQL}$ 1,3-Dichlorobenzene BPQL BPQL BFQL EPQL  $\mathtt{EPQL}$ BPQL 1,2-Dichlorobenzene 54100 BPQL PPQL 15700 BPQL 31900 - Xylenes 420000 3140 BPQL 359000 351000 BPQL Total Aromatics as Xylene 2.0 525 178 265 2.7 139 QL Raised by Factor of: 89.2% 85.5% 79.4% 89.3% 83.2% 74.2% \_ % Solids Notel Note1 Note1 Note1

EPA Method 8010 & 8020; All results reported as ug/l or ppb as dry weight.

— BPQL = Below Practical Quantitation Limit.

5 ppb for Bromoform, 2-Chloroethylvinyl Ether, & Methylene Chloride

1 ppb for All other parameters, 10 ppb for Total Aromatics.

- Note 1: Many unknown late eluting Aromatic or Alkene peaks found.

Respectfully Submitted, SCITEST, INC.

Roderick J. Lamothe Laboratory Director

Page 2 of 3 RJL/cha



## LABORATORY REPORT

11/29/90 DATE OF SAMPLE: Johnson Co. CLIENT NAME: 12/3/90 -SITE LOCATION: Chittenden Bank/Fotohut DATE OF RECEIPT: DATE OF ANALYSIS: 12/10/90 LABORATORY NO: 1702-90 1/16/91 DATE OF REPORT: PROJECT NO: 78611 \_ATTENTION: Mike Pottinger

PARAMETER		OUT 2	OUT 3 BPQL	<u>OUT_4</u> BPQL	<u>OUT 5</u> BPQL	OUT 6 BPQL
Chloromethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
Bromoform	BFQL	BPQL	BPQL	BPQL	BPQL	BPQL
Bromomethane	BPQL	BPQL		BPQL	BPQL	BPQL
Dibromochloromethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
-Vinvl Chloride	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
2-Chloroethylvinyl Ether;	BPQL	BPQL	BPQL	EPQL	BPQL	BPQL
Chloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
_Methylene Chloride	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
Trichloroethylene	BPQL	BPQL	BPQL	EFGT	BPQL	BPQL
Trichlorofluoromethane	BPQL	BPQL	BPQL BPQL	BPGT	BPQL	BPQL
1,1-Dichlorethene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,1-Dichloroethane	BPQL	BPQL		BPQL	BPQL	BPQL
c or t-1,2-Dichloroethylene	—⇒4350	BPQL	BPQL	BPQL	BPQL	BPQL
Chloroform	BPQL	BPQL	EFQL	BPQL	BPQL	BPQL
-1,2-Dichloroethane	EPQL	BPQL	BPQL BPQL	BPQL	BPQL	BPQL
1,1,1-Trichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
Carbon Tetrachloride	BPQL	BPQL BPQL	BPQL	BPQL	BPQL	BPQL
<ul> <li>Bromodichloromethane</li> </ul>	BFQL		BPQL	BPQL	BPQL	BPQL
1,2-Dichloropropane	BFQL	BPQL BPQL	BPQL	BPQL	BPQL	BPQL
t-1,3-Dichloropropene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
_ c-1,3-Dichloropropene	BPQL		BPQL	BPQL	BPQL	BPQL
1,1,2,2-Tetrachloroethane	BPQL	EPQL	BPQL	BPQL	BPQL	BPQL
1,1,2-Trichloroethane	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
Tetrachloroethylena	BPQL	BPQL BPQL	EPQL	BPQL	BPQL	BPQL
Benzene		1408	18800	BPQL	BPQL	3
Toluene	69500	BPQL	56300	BPQL	BPQL	BPQL
Ethylbenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
- Chlorobenzene	BPQL	BPQL	BFQL	BPQL	BPQL	BPQL
1,4-Dichlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
1,3-Dichlorobenzene	BPQL	BPQL	BPQL	BPQL	BPQL	BPQL
_ 1,2-Dichlorobenzene	189000	1530	199000	BPQL	BPQL	10
Xylenes	4030000	36300	4790000	BPQL	BPQL	192
Total Aromatics as Xylane	219	179	1400	2.6	2.7	2.4
QL Raised by Factor of:	83.1%	86.1%	82.7%	86.6%		88.2%
— % Solids	Note1	Note1	Note1	33.3.		Note1
	1400ET	MOCEL	11000			

\_ EPA Method 8010 & 8020; All results reported as ug/l or ppb as dry weight. BPQL = Below Practical Quantitation Limit.

5 ppb for Bromoform, 2-Chloroethylvinyl Ether, & Methylene Chloride

1 ppb for All other parameters, 10 ppb for Total Aromatics.

Note 1: Many unknown late eluting Aromatic or Alkene peaks found.

Respectfully Submitted,

SCITEST, INC.

Roderick J. Lamothe Laboratory Director

Page 3 of 3 RJL/cha



LABORATORY REPORT

CLIENT NAME: Johnson Co. 11/29/90 DATE OF SAMPLE: TITE LOCATION: Chittenden Bank/Fotohut DATE OF RECEIPT: 12/3/90 ABORATORY NO: 1702-90 DATE OF ANALYSIS: 12/6/90 PROJECT NO: 78611 1/9/91 DATE OF REPORT: Mike Pottinger

× )

PARAMETER	TANK #1	
		•
hloromethane	<10	
promoform	<50	į.
Bromomethane	/<10 // // //	i
ibromochloromethane	<10	
inyl Chloride	<10	
2-Chloroethylvinyl Ether	<50	
Thloroethane	<10	
ethylene Chloride	<50	
Trichloroethylene	<10	-
Trichlorofluoromethane	<10	
,1-Dichlorethene	<10	
1,1-Dichloroethane	<10	-
<u>c</u> or t−1,2-Dichloroethylene	<10	
hloroform	<10	
,2-Dichloroethane	<10	
1,1,1-Trichloroethane	<10	
Tarbon Tetrachloride	<10	•
romodichloromethane	<10	
1,2-Dichloropropane	<10	
±-1,3-Dichloropropene	<10	
-1,3-Dichloropropene	<10	RECEIVED
1,1,2,2-Tetrachloroethane	<10	
1,1,2-Trichloroethane	<10	
etrachloroethylene	<10	JAN 1 0 1991
enzene	<10	
Toluene	384	THE JOHNSON CO., INC.
Tthylbenzene /	241	MONTPELIER, VERMONT
hlorobenzene	<10	•
1,4-Dichlorobenzene	· <10	
1,3-Dichlorobenzene	<10	
,2-Dichlorobenzene	<10	
Aylenes	5900	
_	Note 1	

PA Method 601 & 602; All results reported as ug/1 or ppb.

Hote 1: The Tank sample contained many heavy unknown aromatic hydrocarbons.

Respectfully Submitted, SCITEST, INC.

1-0276

Roderick J. Lamothe Laboratory Director

PJL/cha

TTENTION:



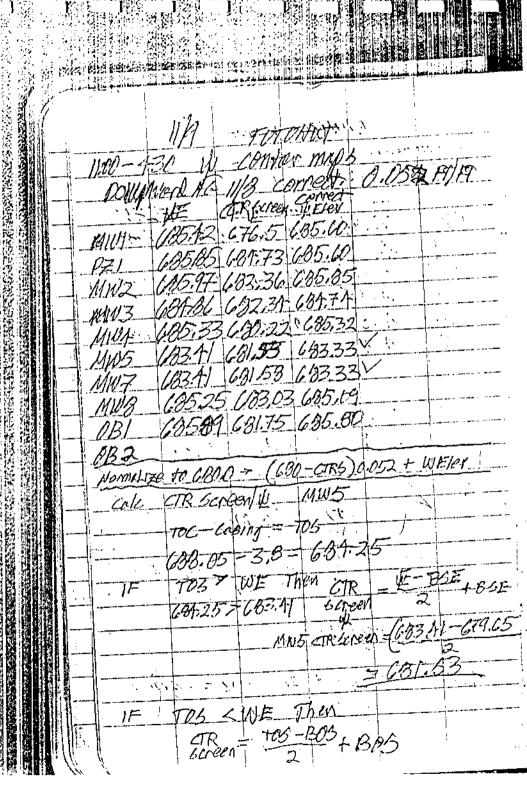
连接感觉的 网络马

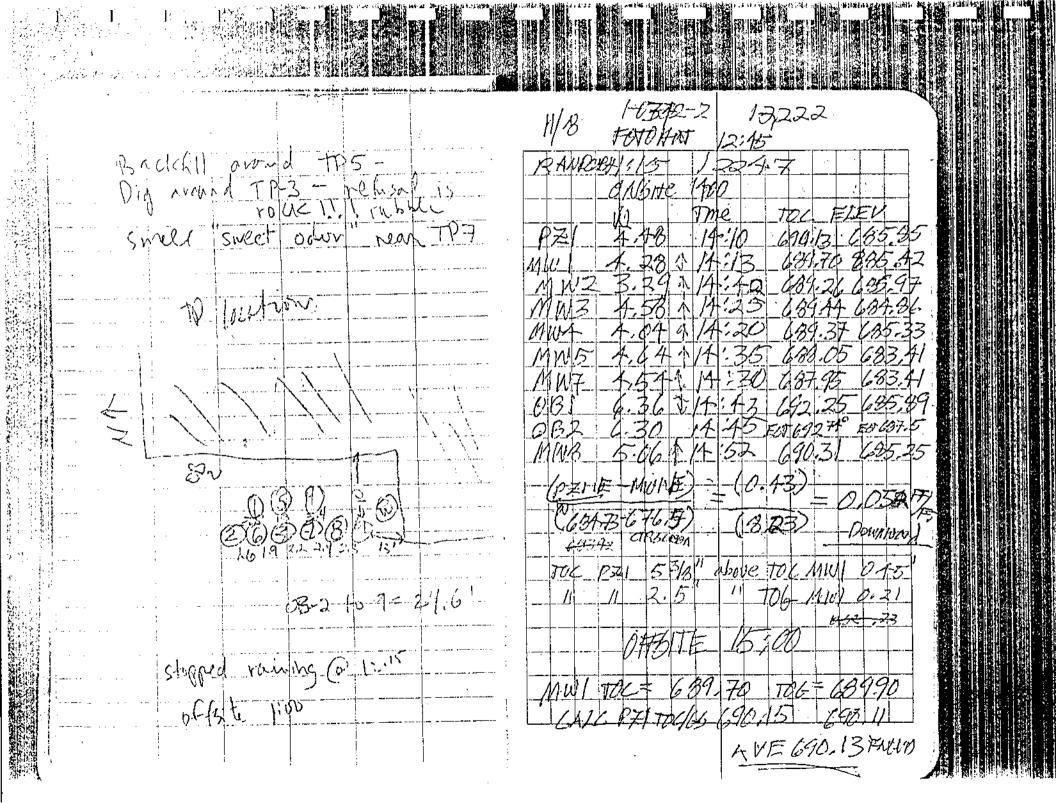
# APPENDIX E Monitoring Well Water Level Data

11/16/93 Report of Water Level Measurements at the Foto-Hut Site, Rutland, Vt. 1-0342-2 DMM Prepared by The Johnson Company, Inc.

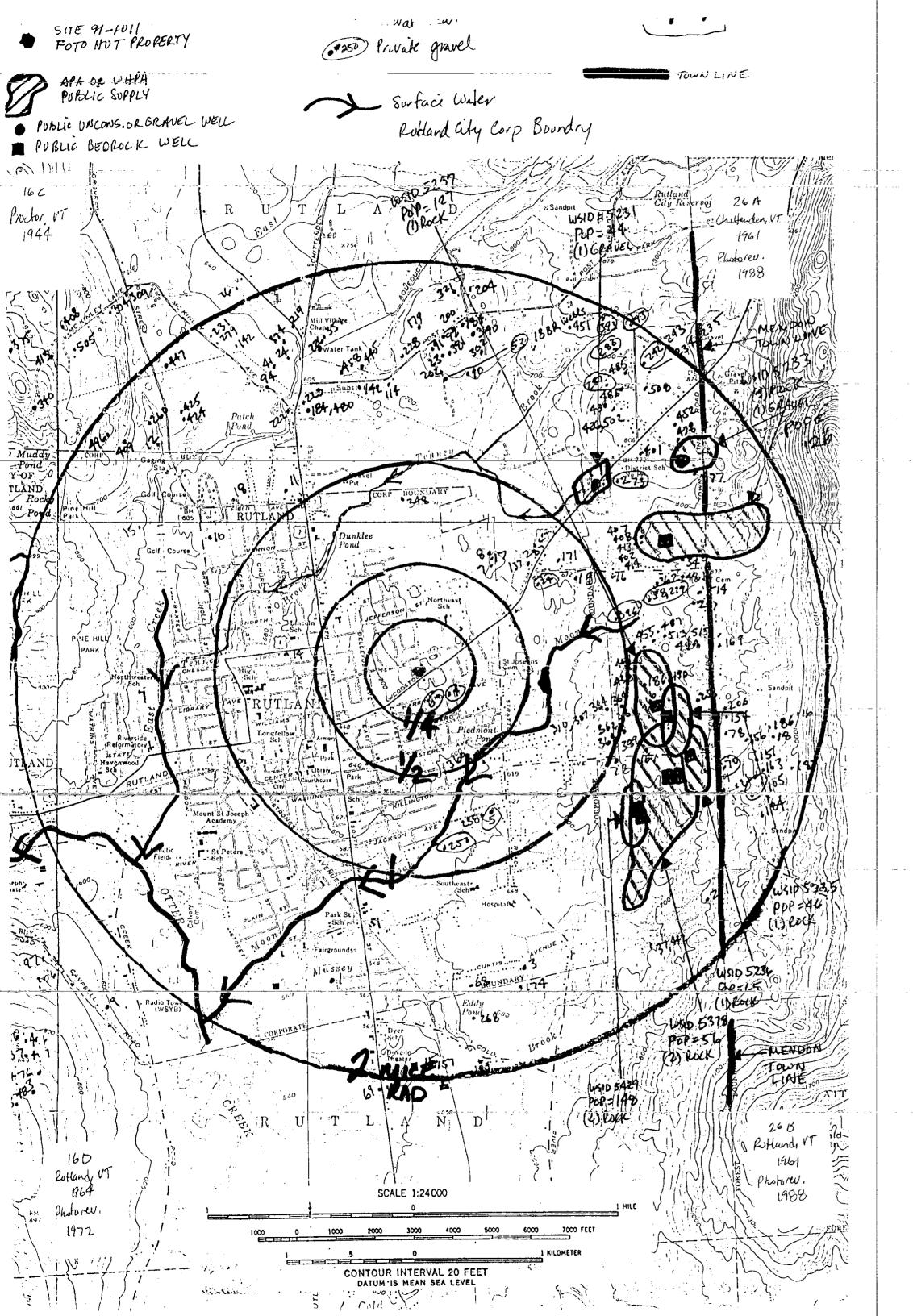
1	WATER	TOC	GS	company,	H20
METT ID	LEVEL	ELEV	ELEV	DATE	ELEV
WELL ID	Le A tit	E LE V	ELEV	DATE	EDEV
NG 1		680 70	680 00	10/01/93	684.05
MW-1	5.65	689.70			684.60
MW-1	5.10	689.70	689.90	10/07/93	
MW-1	4.86	689.70	689.90	10/12/93	684.84
MW-1	4.28	689.70	689.90	11/08/93	685.42
MW-2	4.03	689.26	689.76	10/01/93	685.23
MW-2	4.61	689.26		10/07/93	684.65
MW-2	3.84	•		10/12/93	685.42
MW-2	3.29	689.26		11/08/93	685.97
MM-3	5.56	689.44	689.59	10/01/93	683.88
MW-3	4.71	689.44	689.59	10/07/93	684.73
MW-3	4.97	689.44	689.59	10/12/93	684.47
MW-3	4.58	689.44	689.59	11/08/93	684.86
MW-4	4.96	689.37	689.87	10/01/93	684.41
MW-4	4.08	689.37	689.87	10/07/93	685.29
MW-4	4.39	689.37	689.87	10/12/93	684.98
MW-4	4.04	689.37	689.87	11/08/93	685.33
MW-5	7.35	688.05	688.55	10/01/93	680.70
MW-5	4.96	688.05	688.55	10/07/93	683.09
MW-5	4.98	688.05		10/12/93	683.07
MW-5	4.64	688.05	688.55	11/08/93	683.41
MW-6	4.70	0.00	1	10/01/93	683.78
MW-7	6.77	687.95	688.51	10/01/93	681.18
MW-7	4.73	687.95	688.51	10/07/93	683.22
MW-7	4.84	687.95		10/12/93	683.11
MW-7	4.54			11/08/93	683.41
MW-8	5.47	690.31	688.43	10/12/93	684.84
MW-8	5.06	1	688.43	11/08/93	685.25
OB-1	7.15				685.10
OB-1	5.93	1		1 ' '	686.32
OB-1	6.78		4		685.47
OB-1 OB-1	6.36	1	1		685.89
PZ-1	4.48		1		685.85
F7-T	1 4.40	1020.13	1020+10	1/ 55/ 55	1

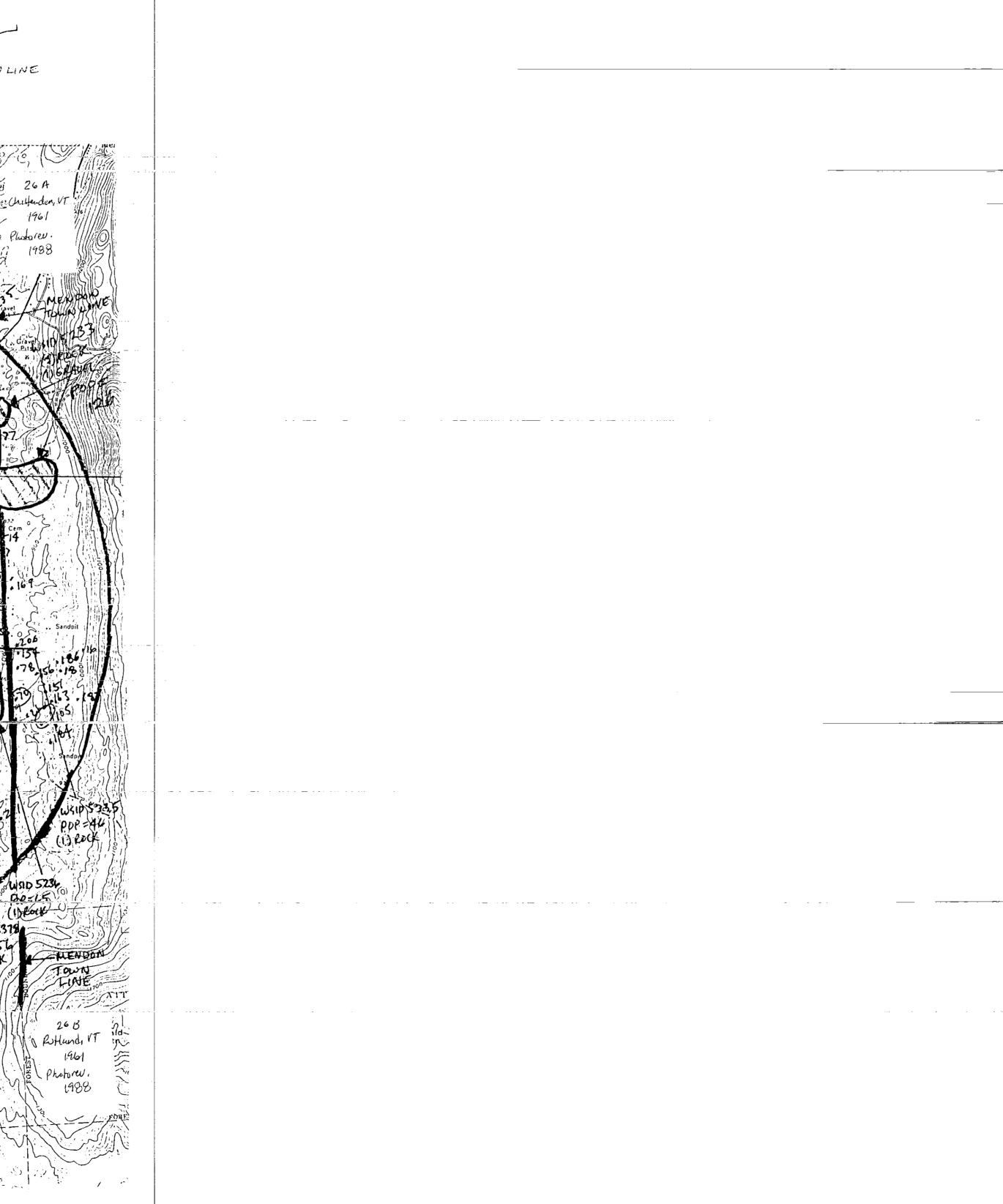
H2O elevations not corrected for vertical hydraulic gradient. Elevations in feet above National Geodetic Vertical Datum





# APPENDIX F Water Supply Well Data





MILLAGE DEPARTMENT USE ONLY WELL NO. / TAG NO. State of Vermont Dept. of Environmental Conservation \_ U.S.G.S. \_\_\_ 5-90 103 South Main Street (ION) Field Location @ Map area \_ Waterbury, Vt. 05676 \_"Elev.\_ • Latitude\_ the Department of Environmental Conseivation WELL COMPLETION REPORT • Topo. Longitude... 103 South Wain Street (ION), Waterbury, VI Scale: 62,500 □,25,000 □, 24,000 □ 05676 no later than 60 days ofter completion SEP 23 1991 01154 =417 Data in Town Files 🗆 Location map attached to WCR WELL OWNER MY OR WELL PURCHASER \_ Permonent Mailing Address \_\_\_\_ LOT NO. \_\_ NOISIVIDAUS LOCATION OF WELL, TOWN . DATE WELL WAS COMPLETED. PROPOSED USE OF WELL! & Domestic, Clother ... REASON FOR DRILLING WELL! Wie Supply, | Replace Errating Supply, | Despon Existing Wall, | Tost or Exploration, 5. Provide Additional Supply, O Other DRILLING EQUIPMENT: O Cobia Toos, B Rosory with 4-P. O Olhar TYPE OF WELL ! Dopen Hole in Badrock, O Open End Cosing, O Screened or Storted; O Other \_\_\_\_\_\_ TOTAL DEPTH OF WELL:\_\_\_\_\_ CASING FINISH. | above ground, Finished, | Above ground, Unflatehed, | Burled, | Ia Pil, | Removed, | None used, | Other\_ 11 Langin bolows 1632 11 Dia 6 in Motorial Steel WE CASING DETAILS: Total langin\_ 165 10. LINER OR INNER CASING DETAILS: Longin wood \_\_\_\_\_\_ IF Diameter \_\_\_\_ 11 METHOD OF SEALING CASING TO BEDROCK! POrtive Shoa, Cl Growt - 1996 \_\_\_\_\_\_\_\_\_, Drilled \_\_\_\_\_\_ to In Bedrock - 12. Other - -SCREEN DETAILS! Make and Type \_ 13. Stor Stress Depth to top of screen in feet below land surface \_\_\_\_\_\_ft., Gravel pack If used. Gravet Size or Type \_\_\_\_ 20\_\_\_\_\_ Gallons per minute YIELD TEST! Bailed. Pumped. E Compressed Air, for \_ Mapwired by & Bucket, C Orifoce pipe, C Wier, C Meter Permanent Airline -calatted \_\_\_feet below land evilaco , Date or Time measured \_\_\_\_\_\_, Overflows at \_\_\_\_ 15 STATIC WATER LEVEL .\_ WATER ANALYSIS! Hos the water been analyzed ? [] Yes [] No. If Yee, Where \_\_\_\_ 16 SPECIAL NOTES: \_\_\_\_\_ 17. 19. SITE MAP WELL LOG 18. permanent structure such as buildings, septic tones, and/or other land marks and leditate not less than the distances to the well indicate local street name and subdivision to i number Depth from Land Surface Formation Description Skatch Fees POUTE 4-MENDON 140 Surface brown linditione WELL DRILLED BY: \_ 20. TESTED YIELD

DOING BUSINESS AS ..

DATE OF REPORT:

If the yould wan turned at different th

....

P. O. Box 1024

Castleton, VI 05735

WELL DRILLERS LK. NO. 227

Authorized Signature

E.m. DiOrio

# WELL NO. /TAG NO.

(For Oriller's Use)

This report must be completed and submitted to the Dapartment of Environmental Conservation 103 South Main Street (ION), Water bury, Vt. 03676 no later than 60 days after completion of the notice.

# State of Vermont Dept. of Environmental Conservation 103 South Main Street (ION) Waterbury, Vt. 05676 WELL COMPLETION REPORT

:	DEPARTM	ENT US	E ONLY
E.C	17	_u.s.g.	s
Field Lo	cation () M	ap gred	2634
Latitude	•	,	"Elev.
		1	* Topo
Scale: 6	2,500 □.	25.000	Topo □, 24,000 □

<u> </u>	3676 no later than 60 days d * The well		esplation	Location map attached to	wcr	Scale: 62,500 🗆, 25,000 🗆, 24,000 Data in Town Files 🗅
	WELL OWNER OR WELL PURCHASE	No.	More Store	kton Mend ton Ruffand City SUBDIVISION	1 1	diling Address  Mailing Address
2 L	OCATION OF WEL	L. T	OWN - Witne	SUBDIVISI	) N	LOT NO.
-· - 3. [	DATE WELL WAS	COM	PLETED <i>6/19</i>	9/89		
4. F	PROPOSED USE OF	- WE	LL: BOomestic, 0 Oth	·		
				iy, 🔲 Replace Existing Supply, 🗋 0		Well, 🔲 Test or Exploration,
			Provide Ad	Sdillondi Supply, 🗆 Other	<del></del>	
6. [	ORILLING EQUIPM	IENT	Cable Fool, @ Agrary	y with A-P, O Other		
7.	TYPE OF WELL: 2	1 0pen	Hole in Bedrock, 🗆 Open En	nd Casing, 🗋 Screened or Slotted; 🕻	) Other	
8.	TOTAL DEPTH OF	WEL	L: 275	feet below land surface.		
۰ ۱	CASING FINISH: D	Above -	ground, Finished, Above gro	ound, Unfinished, 🖯 Buyled, 🔘 in Pit,	Removed, C	None used, Other
10.	CASING DETAILS: T	'etal ler	ngth <u>240</u> 11. Longth	4 5410 L. 5. 938 5 11. Dia	2in. Materia	11 Steel W. 17 16./19.
						Weight Ib./ft.
						, Drilladin. hole ft. in Bedrock
	_					
13.	SCREEN DETAILS:	Make :	oad Type	, Materia	·	, Lengthft., Diameter
· •.	Slot Size	apth 10		11 000	vel pack if used : 6	gravel Size or Type
			top of screen in Jeet below lot	MQ 94170C9		
		led, 🗖	Pumped, D Compressed Air,	,for Hours at	<i>30</i> Wier, □ Weter	Sallons per minute
15. 16. 17.	STATIC WATER LE' WATER ANALYSIS SPECIAL NOTES:	vEL ∷ ∺o. 1	Pumped, E Compressed Air, Measured	, for Hours at	_30	Gallons per minute  Permanent Airline  Overflows at G P M.
15. 16. 17.	STATIC WATER LE	vEL ∷ ∺o. 1	Pumped, E Compressed Air, Measured	, for Hours at I by Sucket, Oriface pipe, Orif	_30	Permanent Airline  Overflows at G P M.  19. SITE MAP
15. 16. 17.	STATIC WATER LE WATER ANALYSIS SPECIAL NOTES: WELL LOG	vEL ∷ ∺o. 1	Pumped, El Compressed Air, Measured  feet bei he water been analyzed ?   For	, for Hours of I by Sucket, Oriface pipe, Or	30 Wier, □ Meter	Gallons per minute  Permanent Airline  Overflows at G P M.
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG Depth from Lond Surface Feet Feet B	VEL	Pumped, El Compressed Air, Measured  feet bei he water been analyzed ?   For	, for Hours of I by Sucket, Oriface pipe, Or	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed?  For  Srown Har	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG Depth from Lond Surface Feet Feet B	VEL	Pumped, El Compressed Air, Measured  feet bei he water been analyzed ?   For	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed?  For  Srown Har	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed?  For  Srown Har	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed?  For  Srown Har	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed? To	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed? To	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES:: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed? To	Hours at	30 Wier, □ Meter	Permanent Airline
15. 16. 17. 18.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG Depth from Lond Surface Feet Feet B Ground Surface Surface 200	VEL	Pumped, Compressed Air, Measured  feet bet he water been analyzed? To	Hours at	30 Wier, Meter	Permanent Airline
15. 16. 17.	STATIC WATER LE' WATER ANALYSIS SPECIAL NOTES: WELL LOG  Depth from Lond Surface Feet Feet B Ground Surface A Surface A TESTED YIELD	VEL. Hos 1	Pumped, Compressed dir.  Measured:	Hours at	30 Wier, Meter  Meter  Shetch  Charles	Permanent Airline
15. 16. 17. 18.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG Depth from Lond Surface Feet Feet B Ground Surface Surface 200	VEL. Hos 1	Pumped, Compressed dir.  Measured:	MELL DRILLED BY:	30 Wier, Meter  Mater  Shatch  Charles	Permanent Airline
15. 16. 17. 18.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG  Depth from Long Surface Feet Feet B Ground Surface B Ground S Gro	VEL. Hos 1	Formula during drilling, Ket below.	Hours at	30 Wier, Meter  Mater  Shatch  Charles	Permanent Airline
15. 16. 17. 18.	STATIC WATER LETWATER ANALYSIS SPECIAL NOTES: WELL LOG  Depth from Long Surface Feet Feet B Ground Surface B Ground S Gro	VEL. Hos 1	Formula during drilling, Ket below.	MELL DRILLED BY:	30 Wier, Meter  Mater  Shatch  Charles	Permanent Airline

(For Briller's Use)

# DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# **WELL COMPLETION REPORT**

UAN 2 8 1986

w.R. 14.		U.S.G	S.S	
Field Location	n D Mo	o are	36BI	_
Latitude	_			
Scale: 62.50	00,2	5,00	Topo 0 🗆 , 24,000 🗆	_
Data la Town I				

Init report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office Building, Montpelier, Vermon 15602, no later

	ng, Montpalier, Vermont 02602, no later 50 days after completion of the well.	Location map attached to WCR	Data in Town Files LI
	OR L PURCHASER Kingdom	· -	irmonent Mailing Address Gleeson Rd. n's Witnesses Rutland, V
2. LOC 3. DAT 4. PRO	ATION OF WELL: TOWN RUTE GENERAL WAS COMPLETED 9-7 DPOSED USE OF WELL: Domestic, Act	nor Church	LOT NO
	☐ Provide A	ddilional Supply, 🖸 Other	
DRII	LLING EQUIPMENT: 🗆 Cobia 7001, 🛱 ROTOR	y with A-P, Other	
TYP	PE OF WELL: A Open Hole in Bedrock, D Open E.  AL DEPTH OF WELL: 185	nd Casing, 🗍 Screened or Statled; 🔲 Othe feet below land surface.	• • • • • • • • • • • • • • • • • • • •
	=	and Universed T Buried T In Pil. T Ri	emoved, ( None used, ( Other
. cas	ING BETAILS' TOTAL LONG 60 HE LONG	h below L S 58 41 Dio (9	_in. Material W1 [b./ff.
A LINE	ER OR INNER CASING DETAILS! Longin u	sed fl. Dlomeler	In Material Weight ID. / Ft.
. MET	THOO OF SEALING CASING TO BEDRO	CK! Drive Shoe, Grout-1994 CE	MPh + , Dritted in. hole fl in Bedrock
		Other	
A scr	REEN DETAILS, Make and Type	Material	tt , Diametertt , Diameter
		endaurfocafi , Grovel po	ck if used. Gravel Size or Type
. YIE	LD TEST: Boiled, D Pumped. A Compressed Air	r, for # Hours of	Gallons per minute
	Measured	s by D Bucket, D Oritace pipe, L Wier,	U Meler
5. STA	ATIC WATER LEVEL: 35	low land surface, Date or Time measured	Overflows 01 G.P M
	TED ANALYSIS'	res 🗋 No , It Yes, Where	·
7. SPI	ECIAL NOTES:	grovited 55	
	LL LOG		19. SITE MAP  show permanent structure such as buildings, septic tanks, and other land marks and indicate halless than two distances to the w
—	I December 1	rmption Description	Sketch indicate local street name and subdivision for number
}	iround		Town Line Rd
	arides to 0 = 100 and	<u> </u>	
K.	o 103 Cimenton	<u> </u>	
_		<u> </u>	uc()
			TO BUT
		<u> </u>	well is Ill from
			scptic
 00 TE	STED YIELD	WELL DRILLED BY:	Gerald Parker Jr
	ne yield was lested at different depths during drilling, list below	1	0. 1
	Feel Gallans Per Minute	DOING BUSINESS AS:	Parker Ubter Wells Company or Business Name
		REPORT FILED BY:	I guild Paike !
		DATE OF REPORT:	$\boldsymbol{\mathcal{C}}$

Company

(For Driller's Use)

# य छ।

# State of Vermont DEPARTMENT OF WATER RESOURES

	(m) 1	WELL COMPLETION REPORT  DO NOT FILL IN
_	(This report must be completed and submitted to the Department of Water Resources, State Office Building,	75-7-
<del></del>	Montpeller, Vermont 05602, no later than 60 days after completion of well. Complete or line out all blanks.)	
_	WELL OWNER Ar. John LaFounta	in Gleason Road Rutland, Vt. 05701  Mailing Address
	TOWN IN WHICH WELL IS LOCATI	ED: Rutland town (Please locate well on a large scale map to accompany this
-	DATE WELL WAS COMPLETED:	11/15/1973 report. Maps are available on
	PROPOSED USE OF WELL:	request.)  Domestic
	DRILLING EQUIPMENT:	Cable Tool
	CASING DETAILS: Length 107	ft Diameter 6 in Material Steel
_	Diameter	Material Length ft.
		SCREEN OR BEDROCK: Drive shoe
	FINAL YIELD TEST:   Bailed, or   6 Hours	☐ Pumped, or ☐ Compressed Air  at7 gallons per minute
		g yield test
_	WELL LOG	
_	Depth From Ground Surface	Give description of formations penetrated, such as: peat, silt, sand, gravel clay, hardpan, shale, limestone, granite, etc. Include size of gravel (diameter and sand (fine, medium, coarse, color of material, structure (loose, packed cemented, hard). For example: Surface to 27 ft. fine, packed, yellow sand to 134 ft. gray granite.
	Surface to SQ ft. Sand, gra	vel, boulders and quicksand
	69 to 34 ft. Blue clay	7 <u></u>
_	94 to 107 ft. Sand, gr	vel and bourders
	to ft.	
	to ft.	NAME OF MOSON DAMA IN C.D.M.
		YIELD TEST DATA IN G.P.M.  If yield was tested at different depth during drilling,  List Below
	or: ft. 7	G.P.M.

WATER ANALYSIS: Has water been analyzed? 

Yes 
No If Yes, Where Include Analysis

DRILLED BY: Charles Wilkins

DOING BUSINESS AS: Ottomquechee Brilling Co., Inc.

DATE OF REPORT: 12/12/1373

WELL DRILLERS LICENSE NO.

G.P.M. G.P.M.

# 24. B4 State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

WR#5 USGS RTW-	· <u>····</u> 、	ETION REPORT	
— Field Loc Map Des(Rut La.43°36'30 Alt 870	TS mitted to		Do not fill in
Lo.72°51'20 HU Scale:62500[7,25000[7,24	ate Office		State Well No. 4336 22 Other No. 72 5731
			Other No. 12 9 7 97
WELL OWNER Mc Laugh I	n Killingt	on the Ru	Hand H
WELL DRILLER ( & W atte	sion Well God o		Address
PROPOSED USE OR USES (Ch		Mailing	Address
Domestic	cultural Business	. Municipa	ıl 🔲 Industrial
Other (Specify use)			
CASING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
	☐ Bailed 6 Hours	Static: /30 Feet	
- Length: 427 Feet	Or Pumped	During Yield	Make:
Diameter: 6 Inches	or 30 GPM	Test: 4/2 0 Feet DRILLING EQUIPMENT	Material:
	Compressed Air		Slot
Kind: Stee!		Cable Tool	Size
Weight: 19-45 lbs/p/ft		☐ Rotary	Length: Ft.
		☐ Air Percussion	Diameter: in.
_ □ New □ Used	Yield: 30 GPM	Other (specify)	
TOTAL DEPTH OF WELL	430 FEET	TOWN WELL IS LOCATI	ED IN: / L + lond ation on reverse side of sheet)
	WELL	. LOG	·
	Oi		
Depth From Ground Surface	lpan, shale, limestone, grani	ite, etc. Include size of gravel	silt, sand, gravel, clay, hard- (diameter) and sand (fine, me- , cemented, hard). For exam- z, gray granite.
o ft. to Po ft			
- 90 ft. to 170 ft			
/70 ft. to 4/5 ft		<i>y</i>	
4/5 ft. to ft		,	
	Geard.		
		YIELD TEST DATA IN G.P.I	
	If yield	was tested at different depth List Below	during drilling,
f1		G.P.M.	
f(		G.P.M.	
ft		G.P.M.	
Has sample of well water been	analyzed?		
Where was sample analyzed?	·		
(Include analysis of sample if		rtment of Water Resources.)	
Date Well was Completed #	-91-71	Date of Report	7
Water Well Driller's License N	10. 16	Well Driller Lete Wolfisign	ature)

# 26 31 **DEPARTMENT OF WATER RESOURCES**

Form WR-59

### WELL COMPLETION REPORT

(This report must be complet the Department of Water Re Building, Montpelier, Vermont 60 days after completion of we	sources, State Office t 05602, no later than		Do not fill in State Well No. 133611 Other No. 125740
	yette Gleason Rome	, , , , , , , , , , , , , , , , , ,	. 05Q01 g Address
WELL DRILLER Ottauquechee	Drilling Co., Inc.	West Bridgewat	
PROPOSED USE OR USES (C	me 672 5020 heck):	Mailing	Address
🔀 Domestic 🗆 Agri	icultural Business Establish		al 🔲 Industrial
Other (Specify use)			
CASING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 57 Feet	Bailed 12 <sub>Hours</sub>		Make:
	Pumped or 5 GPM	During Yield Test: Feet	
Diameter: 6 Inches	Compressed Air	DRILLING EQUIPMENT	Material: Slot
Kind: Steel		☆ Cable Tool	Size
Weight: 3.0 the /n /ft		☐ Rotary	Length: Ft.
Weight: 19 lbs/p/ft		☐ Air Percussion	Diameter: in.
☐ New ☐ Used	Yield: 6 GPM	☐ Other (specify)	<u> </u>
TOTAL DEPTH OF WELL	57 FEET	(Make sketch of well lo	ED IN: Rutland Powne cation on reverse side of sheet
	WEL	L LOG	
Depth From Ground Surface	pan, shale, limestone, gran	ite, etc. Include size of grave	t, silt, sand, gravel, clay, hard l (diameter) and sand (fine, mo d, cemented, hard). For exan ft, gray granite.
O ft. to 41	ft. Fine sand, muck,	cobbles and boulder	rs.
41. ft. to 57	ft. Sand and gravel.		
ft. to	ft.		
ft. to	ft.		
ft. to	ft.		
	If yield	YIELD TEST DATA IN G.P. was tested at different depth List Below	
30	ft. 6	G.P.M.	
	ft.	G.P.M.	
······································	ft.	G.P.M.	
Has sample of well water bee	·	priment of Water Resources	

Date Well was Completed 2/15/71

Well Driller (spenature) Date of Report 3/15/71

Water Well Driller's License No. 6

arties (2) reinou

WELL NO. / TAG NO.

Tor Delivers Use)

Tails report must be completed and submitted to

ire Caparament of Environmental Conservation

103 South Mort Strage (10 N), Wolarbury, Vt.

State of Vermont Dept. of Environmental Conservation 103 South Main Street (ION) Waterbury, VI. 05676 WELL COMPLETION REPORT

FEB	3	1989
, , ,	0	1303

E.C	441	U.S.G	s <u>2684</u>
Latitude		1	*Elev

DEPARTMENT USE ONLY

Longitude \_\_\_\_\_ Topo \_\_\_\_ Scale: 62.500 [J. 25.000 [J. 24,000 [J.

	or the well				Location map attached to WC	R	Data in Town Files 🖸
_ I. _				d Stone T	ownline Rd., Rutla		
	WELL PE	JRCHAS	ER	Nome		Permonent	Malling Address
_ 2	LOCALIUI	N OF WE	ւե. 7	own <u>Rutlan</u>	d subdivision		LOT NO
- <sup>2</sup>				PLETED			
4					ther		
- <del>-</del> 5.	•				ply, 🖸 Replace Extering Supply, 🗍 Deep		
J.	REAGON		C = (//.		Capitianal Supply, 🗆 Olher		
<b>_</b> 6.	DRILLIN:	G FOUIP	MENT		ory with E-P. O Other		
<b>-</b> 0. 7					End Coking, 🔲 Screened or Sidlfed, 🗍 G		
8.					feet beion land surface		
- <sub>9.</sub>	=					Removed, 🗍	None used, [] Other
9. 10.							steel w. 17 15/11
_ 11.							
- '' 12,							, Orilled in hole (f in Bedrack
12.	INC 11100	or cent			Orner		
·- , ·-,	COCCN	DOTALL S	· · · · · ·				fi _ Digmeter
- 13.							ovel 5128 or Type
					17,107 2 Mours of 2		
_ 14.	HELDT	CJ1. CB	··••, 🗅		od by 🔯 Succest, 🗋 Oriface pipe, 🖯 Wies		Permanent Airline (Parm
	CTATIC V	DATED I	EVEL		••		88, Overfices at G P M
15.					Tes XXINo , If Yes, Where		
16. 17							
18.	WELL L						19. SITE MAP
_		Land Surface	werer 1			Sharch	Show permonent structure such as buildings, septic lanks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision latinumber.
	Fael	Feel	Bearing		prination Description	341.0	The second secon
	Surface	67		LOAMY SANI	& BOULDERS	4	
_	6.7.	78		COARSE GR	AVET C OCHER	Ì	766'- 1.12.E
	78	800	Y		<u> </u>	⊣	
	}- <del></del>		1 X 1	GRAY LIMES			I.P.
_	<b>{</b>	1	- ^	GRAY LIMES			E.D.
				GRAY LIMES			ED
_				GRAY LIMES			E.D.
<del>-</del>				GRAY LIMES		T	44'
<del>-</del>				GRAY LIMES			X 23'
<del></del>				GRAY LIMES			X 23'
	) IFSTED		X	GRAY LIMES		CAR	X 23' RLTON MOREY
_ _ _ 20	). TESTEC	YIELD		GRAY I, IMES	STONE	<del></del>	X 23'  RLTON MOREY
  20		YIELD			STONE	<del></del>	X 23'
  20		YIELD		allow during drilling, had boosen.	WELL DRILLED BY:	<del></del>	X 23'  RLTON MOREY
  		YIELD to turbed of diff		allow during drilling, had boosen.	WELL DRILLED BY:	<del></del>	X 23'  RLTON MOREY

WELL NO. / TAG NO.

# State of Vermont Dept. of Environmental Conservation 103 South Main Street (10 N)

DEPARTMENT USE ONLY
E.C. 435 U.S.G.S.
Field Location ■ Map area 2654

This report must be completed and submitted to the Department of Environmental Conservation (03 South Main Street (ION), Waterbury, VI 05676 no tater than 50 days after completion	Waterbury, Vt. 05676 WELL COMPLETION REI	1130	Latitude "Elev Longitude "Topo Scale: 62,500 □,25,000 □, 24,000
or the weti	Location map attached to 1		Data in Town Files 🗆
WELL OWNER DAVIO F	Fucci Box117	Permonent Mo	KUTLAND, UT.
OR WELL PURCHASER			
LOCATION OF WELL! TOWN	P-16-88 SUBDIVISION	N GRAD	DVIEW LOT NO.
DATE WELL WAS COMPLETED	9-16-88	14	enes
PROPOSED USE OF WELL	omestic.   Other		
	Supply,   Replace Existing Supply,   O	epen Existing W	eil, 🗌 Test or Exploration,
REASON FOR BRIDEING WILL	Provide Additional Supply, Other		
DRILLING FOURMENT' (1 conta	Tool Rotory with A-P, Other		
	ock, Doen End Casing, [] Screened or Slotted; [		
	308 teet below land surface.	Other	
	ed Shove ground, Unfinished,   Buried,   In Pis,	Прадолея П	None used Cl Other
CASING FINISH. LI Above ground, Finish	tt. Length below L.S. 300 tt Dia.	Nemoved,	Tree - 17 10/11
LINER OR INNER CASING DETAIL	ILS: Length used11. Diameter O BEDROCK: Shoe, Grout - type _	in. Malerial _	83 //3
METHOD OF SEALING CASING T	O BEDROCK: Sacive Shoe, 🗆 Grout - type _	<u>-</u> .	, Drille I in Bedrack
	☐ Other		
	, Material		
	Compressed Air, for		
	Heasured by Sucket, O Orifoce pipe, O M teet below land surface, Date or Time measure analyzed? Yes No. If Yes, Where		
WELL LOG			19. SITE MAP Show permonent structure such as buildings, septic tanks,
Depth from Land Surface Water			Shop be mouth at decide
Feet Feet Bearing	Formation Description	Sketch	other land marks and indicate not less than two distances the Indicate local street name and subdivision tot number.
Ground 1/3/	Formation Description	Sketch	Indicate local street name and subdivision tot number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision lot number.
195 308 V FRA	1 1-1/	Sketch	1
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision for number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision tot number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision for number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision lot number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision for number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision lot number.
Surface 193 GIA	cial Till	Sketch	Indicate local street name and subdivision lot number.
195 308 V Fra	CIAL TILL	Sketch	Indicate local street name and subdivision for number.
195 308 V Fra	WELL DRILLED BY:	Sketch	Indicate local street name and subdivision for number.
TESTED YIELD	WELL DRILLED BY:	Ray	Indicate local street name and subdivision for number.
TESTED YIELD  If the yield was tested at different depths during de	WELL DRILLED BY:	Ray	Indicate local street name and subdivision for number.
TESTED YIELD  If the yield was tested at different depths during de	WELL DRILLED BY:	Ray	PRIVE DRIVE  PRIVE  PRIVE  PRIVE  B  STETT LEDNARD  Company or Buginess Home  AM J. Clamard
TESTED YIELD  If the yield was tested at different depths during de	WELL DRILLED BY:  WHITE DOING BUSINESS AS:	Ray	Indicate local street name and subdivision tot number.

### WELL NUMBER

## State of Vermont

WATER RESOURCE USE ONLY

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# **WELL COMPLETION REPORT**

381 U.S.G.S

Field Location			
Latitude	•		"Elev.
Lonaltude	٠	ı	" Topo

This report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office

	ys ofter compi		2 , no later INB well,	Location map attached	10 WCR 328	Scale: 62.5	Topo
WELL	OWNER	12	5/574 Your	og Chas	HANA	Dr.	Runaro,
_	R	ec. D	,	•	i ar monent	acomy Address	
	PURCHA		Mana		Permaner	n Mailing Address	
					SION		LOT NO
DATE V	VELL WA	s co	MPLETED Z	27-86			
PROPO	SED USE	OF W	ELLO Domestic, O othe	tr		<del></del>	· ·
REASO	N FOR DE	RILLII	NG WELL New Supply	y, 🗍 Replace Existing Supply, (	Deepen Existing	Well, 🗌 Test or El	uploration,
			Provide Add	ditional Supply, 🛘 Other			
DRILLI	NG EQUI	MEN	T. Coble Tool, Francy	with A-P, Other			_
TYPE	F WELL	<b>6</b>	n Hole in Bedrock, 🗌 Open End	Casing, 🖸 Screened or Slatted	. Other		
TOTAL	DEPTH O	F WEI	LL: 140	, feet below land surfac	•,		
CASING	FINISH: (	] Above	ground, Finished, Above grou	and, Unfinished, 🔲 Burled, 🗀 in i	il, 🗒 Removed, 🗀	None used, 🗌 Othi	:
				below L.S. 58-6-010.			
LINER (	R INNER	CASI	NG DETAILS; Longth uses	d	in, Material.	v	VeightIb./ft.
METHO	D OF SEA	LING	CASING TO BEDROCK	K Down Shoe, Grout - 179	•	Ordinal 3	13-Garage
				Other		/	
SCREE	V DETAIL:	S' Mata	and Type				ff , Diameter
				surfoceff., @			
				or Hours at _			
		-		y, Bucket, O Oriface pipe, C		·	Permanent Atriin
STATIC	WATERI	EVEL	· · · · · · · · · · · · · · · · · · ·	wland surface, Dale or Time meas		16	
317110					U/ 64 Z	Ovarriows of _	бРМ.
WATED				W			
			•	No , If Yee, Where			<del></del>
SPECIA	L NOTES		•	No, if Yee, Where		.,	
SPECIA WELL I	L NOTES _OG	:	•	DENO, If You, Whera	**************************************	19. SITE MA	
SPECIA WELL I	L NOTES	:		No , If Yee, Where	Sketch	19. SITE MA Show permanent still other land marks and	
SPECIA WELL I	L NOTES  LOG  Lond Surface	Water				19. SITE MA Show permanent still other land marks and	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the
SPECIA WELL I Oppth from Feet Ground	L NOTES  LONG Surface Feet	Water	Format			19. SITE MA Show permanent still other land marks and	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG Lond Surface  Feet  ZO  4-5	Water	SAND GIACIANTI	ition Description		19. SITE MA Show permanent still other land marks and	A Procture such as buildings, septic tanks, indicate not less than two distances to the name and subdivision for number.
SPECIA WELL I Oppth from Feet Ground	L NOTES  LONG Surface Feet	Water	SAND GIACIANTI			19. SITE MA Show permanent still other land marks and	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG  Long Surface  Feet  ZO  45  140	Water Bearing	SAND GIACIANTI DUNHAM D	Liamire		19. SITE MA Show permanent still other land marks and	A Procture such as buildings, septic tanks, indicate not less than two distances to the name and subdivision for number.
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG Lond Surface  Feet  ZO  4-5	Water	SAND GIACIANTI	Liamire		19. SITE MA Show permanent str other land marks and Indicate local street	AP ructure such as buildings, septic tanks, lindicate not less than two distances to th name and subdivision for number.
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG  Long Surface  Feet  ZO  45  140	Water Bearing	SAND GIACIANTI DUNHAM D	Liamire	Sketch	19. SITE MA Show permanent still other land marks and	AP ructure such as buildings, septic tanks, lindicate not less than two distances to th name and subdivision for number.
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG  Long Surface  Feet  ZO  45  140	Water Bearing	SAND GIACIANTI DUNHAM D	Liamire	Sketch	19. SITE M/Show permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Oppth from Feet Ground	L NOTES  OG  Long Surface  Feet  ZO  45  140	Water Bearing	SAND GIACIANTI DUNHAM D	Liamire	Sketch	19. SITE M/Show permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Feet Ground Surface ZC	L NOTES  OG  Lond Surface  Feet  ZO  4-5  140	Water Bearing	SAND GIACIANTI DUNHAM D Lg. FRACTUR	RE WWATER	Sketch	19. SITE M/Show permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Ground Surface ZC 45	L NOTES  OG  Land Surface  Feet  ZO  45  1140  YIELD	Water Bearing	SAND GIACIANTI DUNHAM D Lg. FRACTUR	Liamire	Sketch	19. SITE M/Show permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Ground Surface ZC 45	L NOTES  OG  Land Surface  Feet  ZO  45  1140  YIELD	Water Bearing	Formore SAND GIACIANTI DYNITAM D  Lg. FRACTUR  Other during drilling, list below.	RE WATER	Sketch	19. SITE MAShow permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Ground Surface ZC 45	L NOTES  OG  Land Surface  Feet  ZO  45  140  118	Water Bearing	Formore SAND GIACIANTI DYNITAM D  Lg. FRACTUR  Other during drilling, list below.	RE WWATER	Sketch	19. SITE MAShow permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Ground Surface ZC 45	L NOTES  OG  Land Surface  Feet  ZO  45  140  118	Water Bearing	Formal SAND GIACIANTI DUNHAM D  Lg. FRACTUS  Other during drilling, list below.  Gallons Per Minute	WELL DRILLED BY:	Sketch	19. SITE MAShow permanent strother land marks and indicate local street	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.
SPECIA WELL I Depth from Ground Surface ZC 45	L NOTES  OG  Land Surface  Feet  ZO  45  140  118	Water Bearing	Formal SAND GIACIANTI DUNHAM D  Lg. FRACTUS  Other during drilling, list below.  Gallons Per Minute	RE WATER	Sketch	19. SITE MAShow permanent strother land marks and indicate local street  19. SITE MASHOW PROPERTY STREET ST	AP ructure such as buildings, septic tanks, tindicate not less than two distances to the name and subdivision lot number.

1986-38

This report must be completed and submitted to the tragortment of Water Resources and Environmental Engineering State Office Rulls ng, Mantperer, Vermant 05602, ha later

# DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

### **WELL COMPLETION REPORT**

TER RESOURCES	w.R.	368	l	J.S.G	, S
L ENGINEERING					0 2084
					"Elev
ION REPORT					Торо
JUN 13 1998 -	Scale: 61	2,500 [	0,25	,000	011, 24,000
JUN 13 1938 365	Data In T	own Fili	AS   1		

DATE WELL WAS COMPLETED 5-27-86  PROPOSED USE OF WELL AND SOURCE COMMENT OF THE PROPOSED USE OF WELL AND SOURCE COMMENT OF THE PROPOSED USE OF WELL AND SOURCE COMMENT OF THE PROPOSED USE OF WELL OF THE PROPOSED USE OF WELL OF THE PROPOSED USE OF		there 60 day	s after come	tation of	ine well	Locon	on map attached t	1930 36	Data In Tow	n Files   1	-,,,,,,
WELL PURCHASER DALLO FIRE AND TOWN SUBDIVISION  LOCATION OF WELL: TOWN RETERNATION SUBDIVISION  DATE WELL WAS COMPRETED S-27-86  PROPOSED USE OF WELL X. SALES, C. SAL	l.	WELL (	OWNER_		Thris Fr	cci	WOST	Vion	Teren.	Runno	, Ur
LOCATION OF WELL: TOWN KGT AND TOWN SUBDIVISION LOT NO.  DATE WELL WAS COMPLETED S-27-86  PROPOSED USE OF WELL A SAME ASSESSMENT OF SECRET AND ASS	-	OI	R		0.00	•	0	Permanent	Moving Address	C	_
LOCATION OF WELL: TOWN KGT AND TOWN SUBDIVISION LOT NO.  DATE WELL WAS COMPLETED S-27-86  PROPOSED USE OF WELL A SAME ASSESSMENT OF SECRET AND ASS		WELL F	PURCHA	SER _	NOTE OF	r <u>c.c.</u> /	201	Parmon	ens Mailing Address	TCALO, VI	<u> </u>
PROPOSED USE OF WELL Xearner, Down  REASON FOR DRILLING WELL Xearner, Down  Drown as a season transport of the property of the	2.	LOCATIO	N OF W	ELL:	TOWN KUT	ALO TOU	SUBDIVIS میمین	ION		LOT NO	
Design For Drilling Well X. Supply I design from the Conference of	3.	DATE W	ELL WA	s coi	MPLETED <u>5</u>	27-8	6				
DRILLING EQUIPMENT: Decorate a Service Service Service Service Service Decorate Deco	4	PROPOS	ED USE	OF W	/ELLI <b>X</b> eronc. D	Ciner					
S. DRILLING EQUIPMENT:   Cook 100   April	5.	REASON	FOR DE	RILLI	NG WELL	upsiy. () черіося	Erister/mooty, ()	Daepen Existin	g Well, 🗋 less or E	spioration,	
TYPE OF WELL! O gas how in Berries X gas for Cor Cong. 1.3 Security of Statute, O Only  TOTAL DEPTH OF WELL: 2400  CASING FINISH: — some ground; - share X cong petch, whenever, O have an extensive.  CASING FINISH: — some ground; - share X cong petch, whenever, S 2400 is an					E) Provid	e Aca Henri Supply	, I I dener			··· ·	
TOTAL DEPTH OF WELL: 2400   Secretary Continues   Charactery Continu	6.	DRILLIN	IG EQUIF	PMEN	Т. 🗆 Сева Тоог, 🔀	161) = 16 A - 6, C	Orner			<del></del>	
TOTAL DEPTH OF WELL: 2400   Secretary Continues   Charactery Continu	7	TYPE 0	FWELL	Ope	n Male in Bedrack <b>X</b> OP**	fee Cosmp. Li S	creenes or Slotted,	Oiner		<u> </u>	
CASING DETAILS! TO IT TO A THE LINER OR LINER CASING DETAILS. LEADING AND A CONTROL OF SEALING CASING TO BEDROCK Services and the Control of	8										
LINER OR INNER CASING DETAILS. LINGUISTICS IN DEPORT OF SEALING CASING TO BEDROCK X 200 Services 100 Services 100 Services 22 II I BERRIED 20 I TOPE 20 SERVICE	9.	CASING	FINISH: (		groung, Loished Kove	ground, Unfinished,	, () Auries, () in Pil	I, [] kemoved, [	[] None used, [] Oth	er	
LINER OR INNER CASING DETAILS. LINGUISTICS IN DEPORT OF SEALING CASING TO BEDROCK X 200 Services 100 Services 100 Services 22 II I BERRIED 20 I TOPE 20 SERVICE	0.	CASING	DETAILS	i talan	170 Z42	nom teravo s <u>Z</u>	40000	<b>⊘</b> .n Mal•.	್ಷ <u> ೨७८८.</u>	. W1 <u>/ / 7</u> 10/11	
SCREEN DETAILS VOICED TO THE DESCRIPTION OF THE DES	J.										
SCREEN DETAILS VOICED TO THE DESCRIPTION OF THE DES	2.	METHOD	OF SEA	LING	CASING TO BEDR	оск 🔀 г sı	nce. [] would - type		,3zii6.33	ole <u>29</u> ii in Bedrock	
SIGNATE DESTRICT ON SOUTH OF THE STATE OF TH						•			•	<del></del>	
SIGN SIZE	3.	SCREEN	DETAIL	S. ven	i and "rae		Morer	ــــــــــــــــــــــــــــــــــــــ		f1 , Diamete	·
DEPORT FILED BY  Mercan Care Superant Authors  Deportment Authors  Overflows 61  Deportment Authors  Overflows 61											
DEPORT FILED BY  Mercan Care Superant Authors  Deportment Authors  Overflows 61  Deportment Authors  Overflows 61	4	YIELD T	EST: De	30 <b>.</b>	Pumped	<u> </u>	+ ars at	7/2	. Agalons per miñule		
8. WELL LOG  Depth from Load Swifeet Acter Feet Feet Bearing  Sharing Consider Swifeet Acter Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Swifeet Acter  Frest Feet Bearing  Sharing Consider Acter  Frest Feet Bearing  Sharing Consider Acter  Frest Feet Bearing  Sharing Consider Acter  Frest Feet Bearing  Barry Swifeet Acter  Sharing Consider Acter  Frest Feet Bearing Consider Acter  Barry Swifeet Consider Acter	6.					i ray 🗷 No., it rec	, where	<u> </u>		<del></del>	
Show personent state are as a suiting a sector plants, and the press and suiting and are and suiting and are as a suiting as a suiting and are a suiting and are as a suiting	7.			i:					CITE M	A D	
Agent Test Bearing  Feet Bearing  Surface 211  SUPERIOR FEET FEET FEET FEET Bearing  Surface 211  SUPERIOR SUPE	8.							<del></del>	Show permanents	tructure such as buildings, septic	tonks, and
Surface 21/ CHO V FRACTURED DOSOMITE  211 240 V FRACTURED DOSOMITE  GAR. DRIVE.  GAR. DRIVE.  SE GAR. DRIVE.		1		<b>-</b> 1		formation General philo		Sketce	indicate iuroi stree	ringme and supply sign of humber	1 6
211 240 V FRACTURED DOSONITE  OU SE  GAR. DRIVE;  GAR. DRIVE;  SO WELL DRILLED BY:  FEET GOI ONS PER MANUE  DOING BUSINESS AS:  REPORT FILED BY  A GAR. DRIVE  OU SE  GAR. DRIVE  SO WELL  DRIVE  A GOI ONS PER MANUE  DOING BUSINESS AS:  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  DOING BUSINESS AS:  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  CONTROL OF SEMANUE  REPORT FILED BY  A GARDON M. DRIVE  CONTROL OF SEMANUE  CONTROL OF			211		GLACIA	- Till	W/B04 11	0 K 3		(	1 3
TESTED YIELD  WELL DRILLED BY:  WELL DRILLED BY:  WELL DRILLED BY:  Superior States of different depths during String, is drive  Feet Gations Per Maute  DOING BUSINESS AS:  DOING BUSINESS AS:  REPORT FILED BY  August A. Command  Authorized 5 gnature		<u> </u>	7.40	2	Ference	-0 D	lam The	-	1 1 17	1	8
WELL DRILLED BY:  WELL DRILLED		- 3		┤¯	77-17-7-1272		70000		_	لسا	18.
TESTED YIELD  WELL DRILLED BY:  WELL DRILLED BY:  WELL DRILLED BY:  Feet Go: Ons Per Minute  DOING BUSINESS AS:  Company or Buyess hame  REPORT FILED BY  REPORT BY  RE		ļ	<u> </u>	<del> </del>							K
WELL DRILLED BY:  MAY & JEFFE LEDMANCO  DOING BUSINESS AS:  Company or Burgers Agree  REPORT FILED BY  MAY SOME AND COMMENT OF THE COMMENT OF		ļ					·		736	L-1	5
WELL DRILLED BY:  MAY & JEFFE LEDMANCO  DOING BUSINESS AS:  Company or Burgers Agree  REPORT FILED BY  MAY SOME AND COMMENT OF THE COMMENT OF		<b></b>	ļ							haine.	3
Feet Gaisna Per Minute DOING BUSINESS AS: GREEN Mr. Dailing Co., I				<u> </u>			- <del></del> -		G AR	25	7 6
Feet Gaisna Per Minute DOING BUSINESS AS: GREEN Mr. Dailing Co., I				ļ		<del></del>			L		3
Feet Gaisna Per Minute DOING BUSINESS AS: GREEN Mr. Dailing Co., I										Ø Weil	z
Feet Gaisna Per Minute DOING BUSINESS AS: GREEN Mr. Dailing Co., I	20	TESTER	VIE   10			WELL DE	RILLED BY	KAY	& Tes	p Luonare	0
REPORT FILED BY Maynord L. Jennaud	20.			Teren Se	pens during delting, i st betom				<u>.</u>	0 11 1	,
REPORT FILED BY Maynord L. Jennaud			feet		Ga: ans Per Minute	DOING BU	JSINESS AS:_	Gree	5w /M+.	Unilling 4	) Z
ACMA see Spasiale				- 1		1		- 1	Limbory of		. 1
		<del></del>		<del>-   -</del>		4			// _	f _/-	//
DATE OF REPORT 6-12-06 WELL DRILLERS LIC NO				-		REPORT	FILED BY	Kay	and L	· Jema	ul ,

Well	#1
Char Orithe	e's tiee)

This report must be completed and submitted to the Department of Water Resources and

# DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT 1974 2 8 1988

W.R 36_0	<u>2</u>	U.S.0	0.S. 26B/
Latitude	•	1	Elov
Lositude			
Scale: 62,500	00,2	5,00	Topo O□, 24,000□
Data In Town I	Hes L	<u></u>	

1

Environmental Engineering, State Office Building, Monipalier, Vermont 05602, no loter

· <del></del>	than 60 days after complished of the well Location map affached to WCR Data in Town Files D	
1	WELL OWNER BICK Hackett Susan Lane Rutland, Ut OS	570/
	OR .	
	WELL PURCHASER	
2.	LOCATION OF WELL! TOWN SUBDIVISION	4 1
3.	DATE WELL WAS COMPLETED	
4.	PROPOSED USE OF WELL! A Comestic, Clother	17.44
5.	OCACON FOO DRILLING WET L. Mine Supply, Capica Existing Supply, Capenan Existing Wall, Capenan Exploration,	
	Pervide Additional Supply, O Other	
6.	DRILLING EQUIPMENT: Cools Tool, PROIDER with A-P. College	- A3 =
7.	OF NET 1 : Von Main In Redrock   Open End Cosing;   Screened or Stollad;   Other	
<i>t.</i> 8.	feet below land surface.	,
9.	V G Burles Die Pit, D Removed, Wone used, U Viner	7.5.4
ю. Ю.	110	大家
ΝĀ	It Diometer in Material	
	METHOD OF SEALING CASING TO BEDROCK: Drive Shoe, D Grout - type, Drilled in hole H. in 8 edrock	
12.		
al A	, Material, Lengthtt., Diamete	· In
ΛβH	SCREEN DETAILS, Make and Type	
	YIELD TEST: Boiled, Pumped, Compressed Air, for Hours of Gallons per minute	
14.	YIELD TEST.   Boiled,   Pumped,   Compressed Ant. 10   Decket.   Orifoce pipe,   Wier.   Meter   Permonel	d Airline installe
•	STATIC WATER LEVEL feet below land surface, Date of Time measured, Overflows of G.P.M	
15.	STATIC WATER LEVEL feel below look for the state whater	
. 16.		
17.	19. STE WAR	c tanks, and for
18.	Other land marks and indicate not less than I wall at the Country of the Country	DESCRIPTION OF STREET
•	Depth from Lond Surface Water Formation Description Seein	**************************************
	Ground 1 all	1.110 -
_	Surface (CV)	Tho (
	109 109 J 001/4	NG ?
	1109 1122 1 1 1 1	1.
-		કે <b>જેંજ</b> ે
		5v50
-		LAN
_	WELL DRILLED BY: Gerald Parker Jr.	
	WELL DRILLED BY	
2	If the great man tested at different depths during disting, list below	. 1997
2	Gallon Per Minute DOING BUSINESS AS af Ker Ware	<u></u>
- -	Gallons Per Minute DOING BUSINESS AS: TO THE COMPANY OF BUSINESS NOME	<u> </u>
-	S. als Parker d.	
- -	DOING BUSINESS AS:  Company or Business Nome  REPORT FILED BY:  Detail F. Pauler Authorized Signature  DATE OF REPORT: //4/86 WELL DRILLERS LIC. NO.	12

State of Vermont

WATER RESOURCE USE ONLY

to the Department of World Resources and Environmental Engineering, State Office Aurang, Montpeller, Vermont (15602), no loter DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT

DEC ( 0 935

Field Location (1) Map area ... \_"Elev.\_

<u>"</u> Торо.\_ Longitude\_ Scale: 62,500 [],25,000 [], 24,000 []

	toon 60 days after comprehensed the well	L'oculion map	arrached to WCR,		· · · · · · · · · · · · · · · · · · ·	
	WELL OWNER ARTHUR Chi	SOLM		CIOSE TERRI		RUTTANA
١.	OR WELL PURCHASER DAVID FUL		Peri	nonent Moding Address		7007,
2.	LOCATION OF WELL: TOWN RYTERAL	St Cower Or	BDIVISION €	MAND VIEW	LOT NO.	
3.	DATE WELL WAS COMPLETED	19-85		4-cres		
4.	PROPOSED USE OF WELL Sometic D	Ciner				
5.	REASON FOR DRILLING WELL				cl·on,	
	○ Provide	Aca Henry Supply 11: 11	tier			
6.	DRILLING EQUIPMENT: 0 000 100 X	1017 #15 A - P. C OSER _				
7	TYPE OF WELL Spen Hole in Secret. C Open	End Cos (g. C) Screenes	or Signiad, [] Ciner		<u> </u>	_
8.	TOTAL DEPTH OF WELL: 400	<u> </u>	and surface			
9.	CASING FINISH TI Appear ground I his hed Shove	ground, untinished, ( ) day	ad, [] in Pd, [] her	aves, [] Nane used, [] Ciner _		
iO.	CASING DETAILS! Total toget	oth perose 5 /59- 6	2100	Motorial TEEZ	/ Ib /f1	
I,	LINED OF INNER CASING DETAILS	11 5 10	salar in	Maleria Weigh	ıt 1b .	Zt <del>t</del>
2.	METHOD OF SEALING CASING TO BEDRO	OCK Shoe. i3.	229pl - 17pe	Orintes to hove to	9-Gi in Bedioc	
		C Albert				
				Length	0.0	Digmeter
3.	SCREEN DETAILS MONE ONG TIPE		Moter-of			
13.	Stat Size	eans surface	11 , 603-60000 2/2 1-100 at 2/2	fused Gravel Size or Type	Pe	rmanent Airline instal
	STATIC WATER LEVEL 100 GEORGE WATER ANALYSIS: Has the water seen analysis?	ed by Agreedy Charles	11 , Graveresce  2/2  1	Fused Gravel Size or Type  Gallon's per minute  Meter  20	□ Pe	rmanent Airline instal
t <b>4</b> .	STATIC WATER LEVEL 100 of streen of seet Decomes STATIC WATER LEVEL 100 (15)	ed by Agreedy Charles	11 , Graveresce  2/2  1	Huseo Gravel Size or Pype  Notions per minute  Retor  20	□ Pe	rmanent Aitline instal
14. 15 16.	STATIC WATER LEVEL 100 GEORGE WATER ANALYSIS: Has the water seen analysis?	ed by Agreedy Charles	11 , Graveresce  2/2  1	Tubed Gravel Size or Type	Pe	rmanent Artline instal M s, sept-n ronks, and/or
14. 15 16.	STATIC WATER LEVEL OF STEED ON OF STATIC WATER ANALYSIS: Hos sine woter seen sincipals? Company of Special NOTES:  WELL LOG  Department Land Syrlace   West	ed by Agreedy Charles	11 , Graveresce  2/2  1	Meter State or Type	G P	rmanent Airline instal  M  s, septim tanks, and/or vadistancesta the well number
14. 15 16.	STATIC WATER LEVEL OF STEED ON OF STATIC WATER ANALYSIS: Moss the moter scen shortyand? Company of the Company	ed to Squeet, Core  ed to Squeet, Core  yes Sho, if Yes Wrere  urmation Description	The present 11	Fused Grovel Size or Type  Gottons per minute  Meter  20	G P	rmanent Airline install  M  s, septim tonks, and for radistrices to the well number
14. 15 16.	STATIC WATER LEVEL 100 1620 CONTROLOGY CONTR	ed by Xauret, China  the annual resultance, 1 standard  Yes Xauret, China  Annual resultance, 1 standard  Yes Xauret, China  Roy of Yes Where	The present 11	Fused Gravel Size or Type  Gaitins per minute  Meter  20	G P  G P  Greath as building totally less han two electrons less han two electrons and the control of the contr	rmanent Airline instal  M  s, septim tanks, and/or vadistancesta the well number
14. 15 16.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Motors per minute  Motors per minute  Motor Control of	G P  G P  Greath as building totally less han two electrons less han two electrons and the control of the contr	rmanent Artline instal  M  s, septim tonks, and for radistances to the well number
4. 5 6. 7	STATIC WATER LEVEL 100 16250 COTOS STATIC WATER ANALYSIS: Mass the mater scen shows of Special NOTES:  WELL LOG  Depth from Land Surface   Actor    Feet   Feet   Bearing    Grand   Surface   Actor    Grand    Grand   Actor    Grand   Actor    Grand    G	ed to Squeet, Core  ed to Squeet, Core  yes Sho, if Yes Wrere  urmation Description	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Agricos per minute  Meter  20 SJ Over 0=5 01  19. SITE MAP Shop permonent struct Their symmetris again to and cole. Trip is street nom.	cre such as pullding core not less than two e and supply con for	rmanent Airline instal  M  s, septim tanks, and/or vadistancesta the well number
5 6.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Agricos per minute  Meter  20 SJ Over 0=5 01  19. SITE MAP Shop permonent struct Their symmetris again to and cole. Trip is street nom.	cre such as pullding core not less than two e and supply con for	rmanent Airline instal  M  s, sept-r tonks, and/or rad-starcesto the well number
14. 15 16.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Skerce of Stere or Type  Gostons per minute  Meter  20	cre such as pullding core not less than two e and supply con for	rmanent Artline install M s, sept-r tanks, and/or rad-starcesto the well number
14. 15 16.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Agricos per minute  Meter  20 SJ Over 0=5 01  19. SITE MAP Shop permonent struct Their symmetris again to and cole. Trip is street nom.	cre such as pullding core not less than two e and supply con for	rmanent Airline instal  M  s, septim tanks, and/or vadistancesta the well number
14. 15 16.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	1 Granerson 2/2  Les un 1 Aier []  Les un 2 Aier []	Skerce of Stere or Type  Gostons per minute  Meter  20	cre such as pullding core not less than two e and supply con for	rmanent Artline instal  M  s, septim tonks, and for radistances to the well number
14. 15 16.	Stat Size	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	The measured //-	19. SITE MAP Short perminute  19. SITE MAP Short perminent struct. There perminent struct. There indicate uses street named and and and and and and and and and an	cre such as pullding core not less than the e and supply con for	s, septim ronks, and for advisarces to the netting mander.
5 66. 17. 18.	STATIC WATER LEVEL 100 1600 STATIC WATER ANALYSIS. Hos the moter scan shortered? []  SPECIAL NOTES.  WELL LOG  Depin from Land Surface Actes  Fact Fact Bearing  Grand Surface Actes  140 460 V Depin Ham	von Service / Paris /	The measured //-	Skerce of Stere or Type  Gostons per minute  Meter  20	cre such as pullding core not less than the e and supply con for	s, septim ronks, and for advisarces to the mellinumber
14. 15 16.	STATIC WATER LEVEL 100 148794 STATIC WATER ANALYSIS: Hos the woter scen should be special notes of the scent should be special notes:  WELL LOG  Depth from Land Surface Acres Ground Surface 120 Glacial Cardinal Surface Acres Ground Surface 140 CORE 140 CORE 140 CORE 140 CORE 140 CORE	ed to Xaved, it is  you Xho, if you where  written Description  Till W/Boy	Legan Dare ()  Legan Dare ()  Legan Dare ()	19. SITE MAP Shoe perminers and indicate and	re such as building core not less than the e and sund to so not	s, septim tonks, and for radistraces to the mell number.
14. 15 16. 17. 18.	STATIC WATER LEVEL 100 Measured STATIC WATER ANALYSIS: Hos the water seen shortered? []  SPECIAL NOTES:  WELL LOG  Depin from Land Surface Actor  Freet Feet Bearing  Grand Surface 140 OCRE  140 460 V Par Ham  TESTED YIELD	von Service / Paris /	Legan Dare ()  Legan Dare ()  Legan Dare ()	19. SITE MAP Short perminute  19. SITE MAP Short perminent struct. There perminent struct. There indicate uses street named and and and and and and and and and an	re such as building core not less than the e and sund to so not	s, septin ronks, and for no distances to the well number

DATE OF REPORT 11 - 26 - 85 WELL DRILLERS LIC. NO \_

### State of Vermont

# WATER RESOURCE USE ONLY <u> 36み</u> U.S.G.S..

Field Location D Map area \_ 2684

DEPARTMENT OF WATER RESOURCES (For Oriller's Use) AND ENVIRONMENTAL ENGINEERING This report must be completed and submitted

# WELL COMPLETION

31.1CE111.1C			· 4	H.m.	•
DEDART	Latitude			E.lev	
REPORT	Longitude	•	- F	Тооо	
LB 1 1 1986	Scale: 62,50				
ed to WCR	Data In Town	Files L	ı		

W.R. \_\_

to the Department of Woler Resources and Environmental Engineering, State Office Building, Montpelier, Vermont 05602, no later than 60 days after completion of the well,

		enon map enoched to 1	· · · · · · · · · · · · · · · · · · ·	00.0111100	
WELL OWNER	iame.	· · · · · · · · · · · · · · · · · · ·	Permonent Mo	illing Address	
OΩ		100		-	Rudland 1/4
	Dave Stone				
	town <u>Rutland</u>		Ν		LOT NO
DATE WELL WAS CO	WPLETED	- 			
PROPOSED USE OF W	ELL: A Domestic, D Olher				
REASON FOR DRILLI	NG WELL : A New Supply, - Repli	oce Existing Supply, 🛭 Os	epen Existing W	fell, 🗆 Test or E	xploration,
	Provide Additional Sup	ply, 🗆 Other	<del> </del>		<del></del>
DRILLING EQUIPMEN	T. 🛘 Cable Tool, 🛱 Rotary with A-P,	Other			<del></del>
TYPE OF WELL:	n Hole in Bedrock, 🗆 Open End Gazing, 🗆	Screened or Slotted; 🗀	Other		· · · · · · · · · · · · · · · · · · ·
TOTAL DEPTH OF WE	Tr: 300	feet below land surface.			
, ,	ground, Finished, 🔲 Above ground, Unfinish				
	engih <u>. 9.10</u> ft. Langth below L.S				
LINER OR INNER CASI	NG DETAILS: Length used	ft, Diameter	in. Material _		Weight (b./ft.
METHOD OF SEALING	CASING TO BEDROCK: 🗘 🛶	Shoe, 🗆 Grout - 1ype		_ , Orilled in. he	ole ft. in Bedrock
		·			
SCREEN DETAILS: Make	and Type	,Material		,Length_	fi., Digmater
	a top of screen in feet below land surface				
YIELD TEST: D Boiled, C	Pumped, Compressed Air, for	4 Hours of	<i>20</i> 6	allons per minute	
	Measured by A Buck	et, 🗅 Oritace pipe, 🗖 Wid	or, 🗆 Mater		Permanent Airline i
STATIC WATER LEVEL	: 50 ft feet below land surfa	ce , Date or Time measured .	<del> </del>	, Overflows at	G.P M.
WATER ANALYSIS: Has	the water been analyzed ? 🗌 Yee 🗎 No , If	Yes, Where			
SPECIAL NOTES:			-		
WELL LOG					tructure such as buildings, septic tanks, and
Depth from Land Surface   Woter   Feet   Feet   Bearing	Formation Descrip	ption	Sketch	other land marks or Indicate local stree	id indicate not less than two distances to the w finame and subdivision tot number
Ground Surface 210	MUD + SAND			1 1144	į
"					
3/0 300	Limestore	·····	-	Ruthred	
	<u> </u>			'	
·			$\dashv$		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
					STATE
					SERICH
					SIGNIT
L			C so i	d Parl	one Tr
. TESTED YIELD  If the yield was tested at different 4		DRILLED BY:			
Feet	····	BUSINESS AS:	Pack	er Water	or Wells
		550,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	```	Company or	Business Name
	REPOR	RT FILED BY:	<u>ىكى،</u>	ald [ ]	acker, J.
			, I.	Aulhori	zed Signalure
l i	DATE (	OF REPORT:	127/86	well	DRILLERS LIC. NO 176

# State of Vermont

WATER RESOURCE USE ONLY

(For Driller's Hee)

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

WELL COMPLETION REPORT

W.R. 34	8	U S.G	. S
Field Location	E) Ma	D area	26A3
Lothuda	•	•	"Elev
Scale: 62 500	111 2	5.000	" Topo D(), 24,000 []
30016. 02,300	/ 1_1 L.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	70, L 1,000 C

This report must be completed and submitted to the Department of Whiter Resources and Englishmental Englishmental Englishmental Englishment of This Buttling, Montpelier, Vermant 05602, no later than 60 days after completion of the well.

	J 1 7 5 5 7 1	
	WELL OWNER Frank Cioffi	Permanent Mailing Address
	OR WELL PURCHASER	
	LOCATION OF WELL: TOWN Rud/and SUBDIVISION	Permonent Molling Address
2.	LOCATION OF WELL: TOWN RETTAINE SUBDIVISION	N LOT NO
3.	DATE WELL WAS COMPLETED 7/16/64	
4.	PROPOSED USE OF WELL A Domestic.   O other	
5.	REASON FOR DRILLING WELL   Now Supply, [] Replace Existing Supply, [] Dee	
	☐ Provide Additional Supply, ☐ Other	
6.	DRILLING EQUIPMENT; Cobie Tool, A Rolory with A-P. Colner	
7.	TYPE OF WELL: POPEN HOLE IN BEGFOCK, O Open End Cosing, () Scieened or Stoffed; O	Dinor
8.	TOTAL DEPTH OF WELL: 150 Jest below land surface	
9.	CASING FINISH: A Abova ground, Finished, Above ground, Unlinished, Burled, In Pit,	Removed, None used, Olner
O.	CASING DETAILS Total length 100 11 Length below & 98 11 Dia C	
NΑ	LINER OR INNER CASING DETAILS: Length used 11 Diameter	
2.	METHOD OF SEALING CASING TO BEDROCK: D Drive Shoot - 1500	
NA	SCREEN DETAILS, Make and Type	Lengthtt Diomater
•	Sion Size, Depth to lop of screen in feet below land surfacefi , Gravel	
14.	YIELD TEST: Bailed, D Pumped O Compressed Air, for Hours at	30 Gotlons per minute
	Measured by 🗯 Bucket, 🗆 Orifoce pipe, 🖸 Wie	or, Meter Permonent Alrine
15.	Measured by # Bucket, - Oriface pipe, - Wis	or, Meter Permonent Alrine
	Measured by D Bucket,  Orifoce pipe,  Wie STATIC WATER LEVEL!  100 100 100 100 100 100 100 100 100 10	or,   Meler   Permonent Airline   G P M
15. 16. 17.	Meditured by   Bucket, □ Orifoce pipe, □ Wie	or,   Meler   Permonent Airline   G P M
16.	Meditired by Bucket, Orifoce pipe, Will Will STATIC WATER LEVEL!	Overflows of GPM
16. 17.	Medicined by Bucket, Orifoce pipe, Will STATIC WATER LEVEL!	Overflows of Permonent Airline  Overflows of GPM  19. SITE MAP  Stor fermonent structure such as buildings, septic tanks, on
16. 17.	Measured by Bucket, Orifoce pipe, Wie  STATIC WATER LEVEL:	Overflows at G P M G P M G P M
16. 17.	Measured by Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL!	Overflows of GPM  19. SITE MAP Show permanent structure such as buildings, septic tanks, on other land marks and indicate not less than two distances to the indicate local street name and subdivision lat number
16. 17.	Measured by D Bucket, Orifoce pipe, Wie  STATIC WATER LEVEL: Long teet below land surface, Date or Time measured.  WATER ANALYSIS: Hos the water belin drayred? Yes D No., If Yes, Where SPECIAL NOTES:  WELL LOG  Depith from Land Surface Water Feet Bearing Ground Surface SO SANA  SURface SO LAYCES / MC STONE	Overflows of GPM  19. SITE MAP Show permanent structure such as buildings, septic tanks, on other land marks and indicate not less than two distances to the indicate local street name and subdivision lat number
16. 17.	Measured by Bucket, Orifoce pipe, Wie  STATIC WATER LEVEL:	9. SITE MAP Show permanent structure such as buildings, septic tanks, on other land narras and indicate nor less than two distances to the indicate local street name and subdivision is number
16. 17.	Measured by D Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL: Detailed land surface, Date or Time measured.  WATER ANALYSIS: Has the water bean dialyzed? Year D No., If Year, where SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Bearing Ground Surface SO SANA  SO 100 LAYCES 1: MC STONE	9. SITE MAP Stow ferminent structure such as huidings, septic tanks, or other land radias and indicate not less than two distances to the indicate local street name and subdivision satinumber
16. 17.	Measured by D Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL: Detailed land surface, Date or Time measured.  WATER ANALYSIS: Has the water bean dialyzed? Year D No., If Year, where SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Bearing Ground Surface SO SANA  SO 100 LAYCES 1: MC STONE	9. SITE MAP Stow ferminent structure such as huidings, septic tanks, or other land radias and indicate not less than two distances to the indicate local street name and subdivision satinumber
16. 17.	Measured by D Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL: Detailed land surface, Date or Time measured.  WATER ANALYSIS: Has the water bean dialyzed? Year D No., If Year, where SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Bearing Ground Surface SO SANA  SO 100 LAYCES 1: MC STONE	9. SITE MAP Show reimmonent structure such as buildings, septic tanks, or other land marks and indicate nor less than two distances to the indicate local street name and subdivision is number
16. 17.	Measured by D Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL: Detailed land surface, Date or Time measured.  WATER ANALYSIS: Has the water bean dialyzed? Year D No., If Year, where SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Bearing Ground Surface SO SANA  SO 100 LAYCES 1: MC STONE	9. SITE MAP Show fer manent structure such as buildings, septic tanks, on state indicate focal street name and subdivision lat number
16. 17.	Measured by D Bucket, Orifoce pipe, Wise  STATIC WATER LEVEL: Detailed land surface, Date or Time measured.  WATER ANALYSIS: Has the water bean dialyzed? Year D No., If Year, where SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Bearing Ground Surface SO SANA  SO 100 LAYCES 1: MC STONE	9. SITE MAP Show fer manent structure such as buildings, septic tanks, on state indicate focal street name and subdivision lat number
16. 17.	STATIC WATER LEVEL:	9. SITE MAP Show permonent structure such as buildings, septic tanks, on their land nates and indicate not less than two distances to the indicate local street name and subdivision sat number  Shetch  A DA A
16. 17. 18.	STATIC WATER LEVEL:	9. SITE MAP Show permonent structure such as buildings, septic tanks, on their land nates and indicate not less than two distances to the indicate local street name and subdivision sat number  Shetch  A DA A
16. 17. 18.	Measured by House, Orifoce pipe, Will  STATIC WATER LEVEL:	19. SITE MAP Show fermonent structure such as buildings, septic tanks, on other land nature and indicate not less than two distances to the indicate local street name and subdivision lat number  Sketch  RT 7 NOTTH
16. 17. 18.	Measured by House, Orifoce pipe, Will  STATIC WATER LEVEL:	19. SITE MAP Show fermonent structure such as buildings, septic tanks, on state had a structure food a street had a street name and subdivision has humber  Sketch  RT 7 NOTTH  REAL & Parker 10.
16. 17. 18.	STATIC WATER LEVEL:    STATIC WATER LEVEL:   Deet below land surface, Date at Time measured.	STOR FERMORET STRUCTURE SUCH AS AUTHORISES TO THE INDICATE HOLD HE INDICATE HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD
16. 17. 18.	STATIC WATER LEVEL:    STATIC WATER LEVEL:   Deet below land surface, Date at Time measured.	19. SITE MAP Show ferminent structure such as buildings, septic tanks, on other land marks and indicate not less than two distonces to the indicate local street name and subdivision has number  Sketch  RT 7 NOTTh  Planta & Panker 10.

### (For Orllier's Use)

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT

W.R. <u>534</u> U.S.G.S. Field Location \( \text{Map area} \) Map area \( \frac{1607}{2007} \) Latitude \( \text{"Elev.} \) Longltude \( \text{"Topo.} \) Scale: 62,500 \( \text{D, 25,000 \( \text{D} \), 24,000 \( \text{D} \)

Intersport must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office Building, Montpelier, Vermont 05602, no later than 50 days after completion of the welf.

APR 1 1985 Scale: 62,500 0,25,0

_	WELL OWNER John Mactin RFD Center Rutland, Ut. 0.5734
l.	WELL OWNER Permonent Molling Address
	OR
<del></del>	WELL PURCHASER — Permanent Moliting Address . Florest Half Late
2.	LOCATION OF WELL: TOWN Rutland SUBDIVISION Flory Heights LOT NO.
3.	DATE WELL WAS COMPLETED 3-8-85
— 4.	PROPOSED USE OF WELL: & Domestic, O Other
5.	REASON FOR DRILLING WELL . O New Supply, A Replace Existing Supply, Despen Existing Well, D. Test or Exploration,
_	Provide Additional Supply, D Other
6.	DRILLING EQUIPMENT: D coble tool, & Rollary with A-P. D Other
_ 7.	TYPE OF WELL.   Open Hole in Bedrock, 2 Open End Cosing,   Screened or Stotted;   Other
- · 8.	TOTAL DEPTH OF WELL: 665 (set below food surface)
9.	Removed, None used, Other
-10	CASING DETAILS Total length 60 11 Length below U.S. 58 11 Dia. 6 10. Molecial 48. 17 16./11.
10. D#//	LINER OR INNER CASING DETAILS: Length used
,	METHOD OF SEALING CASING TO BEDROCK! Parity Shoe, Grout - Type, Orilled In hole ft in Bedrock
— <sup>12.</sup>	D OINE
• /	ASCREEN DETAILS: Make and Type
13/1	Signature, Depth to top of screen in feet below land surfaceft., Gravet pack if used: Gravet Size or Type
	YIELD TEST. Boiled. Pumped, & Compressed Air, for 3 Hours of Gallons per minute
14.	YIELD TEST. Boiled. Pumped, McCompressed Air, for
	STATIC WATER LEVEL: 200 feet below land surface, Date or Time measured 3-11-45, Overflows at G.P.M.
15.	
16.	WATER ANALYSIS: Hos the woter been analyzed ? Did Nort USE the well because of lowestatic Level.  SPECIAL NOTES: Did Nort USE the well because of lowestatic Level.
<u> 17.</u>	SPECIAL NOTES.
18.	WELL LOG  Show permonent structure such as buildings, septic tanks, and/or produced and less than two distances to the well
	Depth from Land Surface Water Formation Description Sketch Indicate local street name and subdivision lot number
	Ground Sq. Clay & Rocks
•	Surface
	570 dbs Limestone
	Flory
_	Heights
_	
	Date of The
<b>— 50</b>	TESTED YIELD WELL DRILLED BY: Gerald Parker Jr.
	Feet Cahans Per Minute DOING BUSINESS AS: Par Kar Water Order Risings None
	Feet Galions Per Minute DOING BUSINESS AS: FOR KAR WATER Company or Business Nome
_	REPORT FILED BY: Scient Parker, Segrature
	DATE OF REPORT: 3/85 WELL DRILLERS LIC. NO. 174
_	DATE OF REPORT.

1984-43

Intersport must be completed and submitted to the Department of Water Resources and Environments: Engineering, \$1018 Office Building, Montpelier, Vermant 05602, no later than 50 days after completion of the well.

# DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT

SEF 1 7 1984.

W.R. 310 U.S.G.S.
Field Location (1) Map area 2634
Latitude Electronic Topo.
Scale: 62,500 (1),25,000 (1),24,000 (1)

	SET Location map attached to WCR	Data In Town Files 11
I.	WELL OWNER FRANK BREEZ SCISAL CALL PRIMARANT MODI	
	WELL PURCHASER DAVID FUECI DAVID Rd.	Parting Address
2.	LOCATION OF WELL: TOWN RESTERNED TOWN SUBDIVISION SAME	- View ACROT NO.
3.	-7 - 7 (A. D. V.	
4.		
5.		II, 🖵 Test or Exploration.
	Provide Additional Supply, Other	
6.	ORILLING EQUIPMENT: D cobie Took Rolary with A-P. D Olber	
7.	TYPE OF WELL, Sopen Hole in Bedrock, C Open End Casing, C Screened or Glosted; C Olmer	
8.	TOTAL DEPTH OF WELL: 200 feat below lond surface.	
9.	CASING FINISH: Above ground, Finished, Mabove ground, Unfinished, D Burled, D in Pil, D Removed, D N	one used, Other
Ο.		728 W1 1b /11.
I.	LINER OR INNER CASING DETAILS: Langin used fl. Diameter In. Moterial	Weight 16./ff
12.	METHOD OF SEALING CASING TO BEDROCK Drive Shoe, D Grout - 1984	Drilled To hole D 11 In Badrock
	Other	
3.		
	Sign Size, Depth to top of screen in feet below land surfaceft., Gravel pack if used: Grav	
4.		ons per minute
	Measured by 🔀 Bucket, 🖸 Oriface pipe, 🗋 Wier, 🗋 Meler	Permanent Airline installed
15.		
16.		<del></del>
17.		0.000
18.	WELL LOG	19. SITE MAP Show permanent structure such as buildings, septic tanks, ana/or other land marks and indicate not less than two distances to the well
	Ospth from Land Surface   Water   Formation Description   Sketch   Feet   Feet   Bearing	indicals local street name and tubo vision (at number
	Surface 171 Glacine Till	, T
	171 190 DUNHAM PolomiTE	House (3)
		1 4 1 1
	190 200 L FRANCTURED DU JUMITE	3e'   50
		weu _
		SUSAN LANG
		) (
		1 1
^^	O. TESTED YIELD WELL DRILLED BY: King	E' JUTE ( EUNARO
ZU.	if the yield was tested at different depths during drifting, list below	1. 1. 1. 4
	Gallons Per Minute DOING BUSINESS AS: 5/268	Company or Busings Name
		of the will
	REPORT FILED BY:	Authorized Signature
	DATE OF REPORT: 8-4-5	WELL DRILLERS LIC NO 57
	DATE OF REPORT: 0 TO	WELL DRILLERS CIO. NO.

1984-21

This report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office Building, Montpelier, Vermont 05602, no later

# DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# **WELL COMPLETION REPORT**

W.R. 307 U.S.G.S.
Field Location | Map area 2 to A 3
Latitude Elev.
Longitude Topo.
Scale: 62,500 | 25,000 | 24,000 |

	than 60 days after completion of the well.	IN 1 Location map		
	WELL OWNER ERNEST	MCKIRRYNER	RED	RUTLAND, UT.
•	OR Nome	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Permonent	Malling Address
	WELL PURCHASER			ani Moliko Address
2.	LOCATION OF WELL TOWN	CUTLANO TOWN SI	Parmon IBDIVISION	LOT: NO.
z. 3.	DATE WELL WAS COMPLETED	5-9-84	30014131014	
3. 4.	PROPOSED USE OF WELL			
т. 5.	REASON FOR DRILLING WELL			
٥.	REASON FOR DRICEING WELL	Provide Additional Supply, D OIR		
3.	DRILLING EQUIPMENT: D CODE			
7. 3.	TYPE OF WELL Open Hole in Bedi	405 test below	ione surface	
). ).	CASING FINISH:   Above ground, Finish			None used. Other
o. O.	CASING DETAILS, Total length	188 1. LARGER BAILS 136	211 Din	101 STEEL W. 17 15./11
J. J.				oi ib./ft.
ı. 2.	METHOD OF SEALING CASING	TO BEDROCK Safety Shore Di	Grout = 1404	, Drilled St. note 5.5 ft in Bedrock
••	METHOD OF DEALING CASHING	-		•
3.	SCREEN DETAILS' HOVE ORD THOSE			
ν.	001,021,021,1120,1120,1120			
	Stot Size, Depth to top of scree	n in feet below land surface	ti., Grovel pock if used	Grovel Size or Type
4. 5.	YIELO TEST: Boiled, Pumped STATIC WATER LEVEL:	Compressed Air, for	Hours of	_ Gallans per minute
5. 6.	YIELO TEST: 🗆 Boiled, 🗇 Pumped, 🤝	Compressed Air, for Orifo Measured by Rucket, □ Orifo feet below land surface, Date or n analyzed ? □ Yes, No., If Yes, Where	Hours at	Gallons per minute  Permanent Airline Insta
5. 6. 7	YIELD TEST: Boiled, Pumped STATIC WATER LEVEL: 3	Compressed Air, for Orifo Measured by Rucket, □ Orifo feet below land surface, Date or n analyzed ? □ Yes, No., If Yes, Where	Hours at	Golfans per minute  Permanent Airline Insta  S + Overflows of C P M  19. SITE MAP
5. 6. 7	YIELO TEST: Boiled, Pumped S  STATIC WATER LEVEL: 3  WATER ANALYSIS: Hos The water been SPECIAL NOTES;  WELL LOG  Depth from Land Surface   Water	Compressed Air, for Orifo Measured by Rucket, □ Orifo feet below land surface, Date or n analyzed ? □ Yes, X No., If Yes, Where	Hours at	Gollans per minute    Permanent Airline Insta   Stream
5. 6. 7	YIELO TEST: Boiled, Pumped S  STATIC WATER LEVEL: 3  WATER ANALYSIS: Hos The water been SPECIAL NOTES;  WELL LOG  Depth from Land Surface Water Feet Feet Bearing	Compressed Air, for Measured by Rucket,	Hours al	-84. Overflows of CPM  19. SITE MAP Show perminent structure such as buildings, septic ronks, and/or such as buildings are proportionally to the well-
5. 6. 7	YIELO TEST: Boiled, Pumped S  STATIC WATER LEVEL: 3  WATER ANALYSIS: Hos the water been SPECIAL NOTES:  WELL LOG  Depth from Land Surface   Water   Feet   Feet   Bearing   Ground   Surface   75   6/4	Compressed Air, for Measured by Rucket, _ Orifice feet below land surface, Bate or n analyzed? _ Yes, No., If Yes, Where	Hours al	Permanent Airline Insta  St. Overflows of GPM  19. SITE MAP Show permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision tot number
	YIELO TEST: Boiled, Pumped S  STATIC WATER LEVEL: 3  WATER ANALYSIS: Hos the water been SPECIAL NOTES:  WELL LOG  Depth from Land Surface Water Feet Feet Bearing Ground 75 G/A  Surface 75 G/A	Gampressed Air, for	Hours at	Permanent Airline Insta  St. Overflows of CPM  19. SITE MAP Show permanent structure such as buildings, septic ranks, and/or other load marks and indicate not less than two distances to the well indicate local street name and subdivision tot number.  EAST P-TIFFORD Rd.
5. 6. 7	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos The water been SPECIAL NOTES: WELL LOG Depth from Land Surface Water Fast Fast Baaring Ground Surface 75 6/2 75 85 00	Compressed Air, for	Hours al	Permanent Airline Insta  ### Overflows at
5. 6. 7.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos The water been SPECIAL NOTES: WELL LOG Depth from Land Surface Water Fast Fast Baaring Ground Surface 75 6/2 75 85 00	Gampressed Air, for	Hours al	Permanent Airline Insta  St. Overflows of CPM  19. SITE MAP Show permanent structure such as buildings, septic ranks, and/or other load marks and indicate not less than two distances to the well indicate local street name and subdivision tot number.  EAST P-TIFFORD Rd.
5. 6. 7	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos The water been SPECIAL NOTES: WELL LOG Depth from Land Surface Water Fast Fast Baaring Ground Surface 75 6/2 75 85 00	Compressed Air, for	Hours al	Permanent Airline Insta  ### Overflows at
5. 6. 7.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos line water been SPECIAL NOTES: WELL LOG Depth from Lond Surface Water Feet Feet Bearing Ground Surface 75 G/A 75 85 OC 85 115 Rot 1/5 315 - Out 315 340 GR	Gompressed Air, for	Hours of	Permanent Airline Insta  ### Overflows of CPM  19. SITE MAP Show permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision lot number  EAST P-TIS FORD Rd.
5. 6. 7	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos line water been SPECIAL NOTES: WELL LOG Depth from Lond Surface Water Feet Bearing Ground Surface 75 S/A 75 85 OC 85 1/5 Rot 1/5 3/5 C Out 3/5 340 GR	Gompressed Air, for	Hours of	Permanent Airline Insta  ### Overflows at
5. 6. 7	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos line water been SPECIAL NOTES: WELL LOG Depth from Lond Surface Water Feet Bearing Ground Surface 75 S/A 75 85 OC 85 1/5 Rot 1/5 3/5 C Out 3/5 340 GR	Compressed Air, for  Measured by Saucket, Orifo  Get below land surface, Bate or In analyzed? Yes, No. 11 Yes, Where  Formation Description  FORE  TEN LEDGE W/OC  UHMM DOLOMIT  AY QUART Z  NHAM DOLOMIT	Hours of	Gollans per minute    Permanent Airline Insta   Style   Permanent Airline Insta   Shaw permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision for number    EAST P-TIS FORD Rd.   Permanent Airline Insta   Permanent Airline Insta   CPM
5. 6. 7. 8.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hop the water been SPECIAL NOTES: WELL LOG  Depth from Land Surface World Ground Ground Surface 75 S/A 75 85 OC 85 1/5 Roy 1/5 3/5 - Dun 3/5 340 GR 340 405 - Dun TESTED YIELD	Gompressed Air, for	Hours of	Gottons per minute    Permanent Airline Insta   Style   Permanent Airline Insta   Shaw permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision for number    EAST P. TIS FORD Rd.
5. 6. 7. 8.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos line water been SPECIAL NOTES: WELL LOG  Depth from Land Surface Water Feet Bearing Ground Surface 75 6/2 75 85 00 85 1/5 85 1/5 85 00 85 1/5 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85 00 85 1/5 85	Gompressed Air, for	Hours of	Gottons per minute    Permanent Airline Insta   Style   Permanent Airline Insta   Shaw permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision for number    EAST P.TIEFORD Rd.
5. 6. 7. 8.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos line water been SPECIAL NOTES: WELL LOG  Depth from Land Surface Water Feet Bearing Ground Surface 75 G/A 75 85 OC 85 1/5 Rot 3/5 3/5 CO 3/6 405 V Dur  TESTED YIELD  If the yield was tested at different depths during day  Feet Gallons F	Gompressed Air, for  Measured by Squcket, Orification of the below land surface, Date or in analyzed? Yes, No. 11 Yes, Where  Formation Description  FORME TILL  FORME WOOD MITTERS WOOD OF THE WART OF THE WOOD OF THE WHAT WELL DRILLE  ON THE WOOD OF THE WOOD OF THE WING WELL DRILLE  WELL DRILLE  WELL DRILLE  ON THE WOOD OF THE WELL DRILLE  WELL DRILLE  ON THE WOOD OF THE WOOD OF THE WELL DRILLE  WELL DRILLE  ON THE WOOD OF THE	Hours of	Gollans per minute    Permanent Airline Insta   Style   Permanent Airline Insta   Shaw permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision for number    EAST P-TIEFORD Rd.   Property   Pr
5. 6. 7. 8.	STATIC WATER LEVEL: 3 WATER ANALYSIS: Hos the water been SPECIAL NOTES: WELL LOG  Depth from Land Surface Water Feet Bearing Ground Surface 75 G/A 75 85 OC 85 1/5 Rot 3/5 3/5 CA 3/5 3/6 GR 3/6 4/05 V Duy  TESTED YIELD  If the yield mas tested at different depths during defense feet Galions F	Gompressed Air, for  Measured by Squcket, Orification orification between the properties of the proper	Sketo  Sketo  Sketo  Sketo  Sketo  Sketo  Sketo  Sketo  Sketo	Gottons per minute    Permanent Airline Insta   Style   Permanent Airline Insta   Shaw permanent structure such as buildings, septic ranks, and/or other land marks and indicate not less than two distances to the well indicate local street name and subdivision for number    EAST P.TIEFORD Rd.

(For Dellier's Use)

This raport must be completed and submitted

to the Deportment of Warer Resources and Environmental Engineering, State Office Bullding, Montpeher, Vermont 05602, no later

### State of Vermont

### WATER RESOURCE USE ONLY

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT

9 1983

WR 296		U.S.G	. S
			2631
			"E.lev
Longitude		5.000	Topo
			00, 24,000 🗆
Datain Town F	lias L	į	

	than 60 days of ter completion of the well.	Location map attached to W	CR	Data in Town i	Flies U
	WELL OWNER		<b>D.</b>	loiling Address	
	OR Nome	na		-	- A 114
	WELL PURCHASER T. M. R.	a y m cha mus	Permanen	T Motling Address	10 89 2 + 1 7 17
	LOCATION OF WELL: TOWN ROTTO	wi subdivision	٠		LOT NO
	DATE WELL WAS COMPLETED 4/5	183			
	PROPOSED USE OF WELL : Domestic. Doth	61			
	REASON FOR DRILLING WELL New SUPPL				
		ditions: Supply, 🖸 Other			
	1				
	DRILLING EQUIPMENT: D Cobia Tool, Rolory				
	TYPE OF WELL: A Open Hote In Bedrock, O Open En		ther		
	TOTAL DEPTH OF WELL: 385			_	
	CASING FINISH: X Above ground, Finished, Above gro	und, Unfinished, 🔲 Burled, 🖸 In Pit, 🔲	Removed,	None used, ∐ Other.	19
	CASING DETAILS! Total langin 120 41. Langin	Delow L.S	in Materia	1 *	1 16 /11
P	LINER OR INNER CASING DETAILS! Longith us	edfr Digmeter	_ In Moterial .	Wet	ght 16 /11.
	METHOD OF SEALING CASING TO BEDROC	K. Dorive Shoe, 🗆 Grout - type		, Orilled , in hole	rr in Bedrock
		Other		·	<del></del>
f	SCREEN DETAILS: Make and Type	, Material		,Length	ti , Diometer
• !	Stor Size	dauriocaft., Grovels	ocxifused G	rovel Size or Type	
		for Rours at	<u>10                                    </u>	ations per minute	
•	Meditured	by 🗆 Bucket, 🗖 Oriface pipe, 🗗 Wier	. O Meter		Permanent Airline Ins
		ow land surface , Date or Time measured		Overflows at	СРМ
	WATER ANALYSIS: Has the water been analyzed?   Yes				_
	SPECIAL NOTES:				
				19. SITE MA	Ρ
	WELL LOG	<u></u>		Diner land marks and if	cture such as buildings, veptic tanks, and/o idicate not less than two distances to the wel
	Depth from Land Surface   World   Form   Form	nation Description	Skeich	indicate local street no	ome and subdivision lot number
	Ground 222 CLAY	HARL FAX	6	100	
		FARFSTONF	] ( <u> </u>	<u>ا</u> ک	1.
		TO 1 1 1 160 5 1416			13
	120 265 Bec AR	T2 T LIMES FORE	-{		
			_		
			165		
			1	j	100 E
					4/29
		<del></del>		⊒ -	1. 17 5
0	D. TESTED YIELD	WELL DRILLED BY:	Di.	alk C.	12 Min J. s.
	If the yield was lested of different depths during disting, his below				
	Feel Galians Per Minute	DOING BUSINESS AS:	177	Compens or Bu	1 -1768 4/62
			_	· ( )	í.
		REPORT FILED BY:		Authorized	V2
		DATE OF REPORT:	;	WELL DI	RILLERS LIC. NO.

State of Vermont DEPARTMENT OF WATER RESOURCES (For Oritier's Use)

AND ENVIRONMENTAL ENGINEERING

W.R	<del>-/</del>	U.S.G	.s	
Field Location	n 🗆 Ma	p are	a	
Latitude	•	1	"Elev	
Longitude	•	1	" Тор	o
01-1 60 50	VA (1) 3	E 00	<u> </u>	0000

WATER RESOURCE USE ONLY

This report must be completed and submitted to the Deportment of Water Resources and Environmental Engineering, State Office

WELL	ÇQMPL	ETION	REPORT
------	-------	-------	--------

w.r. <u>287</u> u.s.g.s
Field Location 🗆 Map area
Latitude Elev
Longitude Topo Scale: 62,500 🗆,25,000 🖸, 24,000 🗆
Data In Town Files U
d Rutland 11t.
ling Address

	Building, Montp than 60 days 6			00	Location map	attached to WCR.	<u> 286 Doi</u>	ile. 62,500 ⊔,: a In Town Files	2 <b>5,000</b> U, U	24,000 🖯
- <del></del>	WELL O	WNER	M	Ke Mpy	hew		ay Rd.	7 3		
•	OR		Nome	, , , , , , , , , , , , , , , , , , , ,	_	Per	mohent Mailing /	AGGF414		
	WELL PI	URCHAS	ER	Name ( )		· · · · · · · · · · · · · · · · · · ·	Permanent Molike	Address		<u> </u>
_ 2.	LOCATIO	N OF WE	LL: TO	WN Kutle	ind si	UBDIVISION _		L	.OT NO	···
3.	DATE WE	LL WAS	COMP	LETED 12/10	82					
- 4.	PROPOSE	D USE	OF WEI	_L . Decomeetic, 🗆 o	ther		<del></del> -			
5.	REASON	FOR DR	LLING	WELL	Raplace Existing	g Supply, 🗆 Deepen	Extering Well, [	Test or Exploration	•	
				🔲 Provide	Additional Supply, 🛭 01	her				
- 6.	DRILLIN	G EQUIP	MENT:	Cable Tool, Rose	ry with A-P. 🗆 Other.	·_		. <u></u> .		
7.	TYPE OF	WELL:	□ Open He	te in Bedrock Dopen t	End Casing, 🗋 Screened	or Stotled; 🗆 Other			<del> </del>	-
<b>-</b> 8.	TOTAL DI	EPTH OF	WELL	:_163	feer below	land surface.				
9.	CASING F	INISH: C	Above gr	ound, Finlahed, Above q	round, Unfinished, 🔲 Bur	rled, 🗌 In Pit, 🗒 Res	noved, 🗌 None	used, 🖸 Other		
10.	CASING D	ETAILS:	Total lang	n 163 11. Lang	rh 8010# (.S. ) 6 3	_ (1. Ola, <u> </u>	In. Material	150 m. 19	45 16.71E /	NEW
- 11.	LINER OF	INNER	CASING	DETAILS: Langen	yesd f1. Dla	meter In	. Waleriol ———	Weight	ib./f1	
12.	METHOD	OF SEAL	ING CA	SING TO BEDRO	CK Storive Shoe, O	Grout - type	, Drii	ed in. hole	, ft. in Bedrock	
_					OINER		<del></del>		<u></u>	
13.	SCREEN	DETAILS	S; Make an	d Type				Lengin	fs , Dior	meteri
	Slot Size	<del></del>	, Depth to 10	p of screen in feet below i	and eurface	ft., Gravel paci	clf weed: Gravel S	ize or Type	<del></del>	<del></del>
14.	YIELD T	EST: 🗆 e	alied , 🖸 P	umped, Compressed A	Ir, for	. Hours of	Gallons	per minute		
				Mecsure	a by Sucker, 🗆 Ori	foce pipe, 🗆 Wier, 🖯	Mater		C Perm	anent Airline installe
<del>-</del> 15.	STATIC V	UATER 1	EVEL '		· ·			Overflows at	G. P. M	
16.				water been analyzed?						
17.				OPAVE)						
_ <sub>18.</sub>	WELL L			J			19.	SITE MAP		
.0.		Land Surface	Water			<del></del>	othe	w permanent structure su it land morks and indicate tale local street name and	not less than two d	listances to the well.
	Feet	Feet	Bearing		ormation Description		Skelch India	care tocal street mante and		-
	Ground Surface	50		GRAVEL				301	They	1
	50	105		Sand 6	with bold	6 C2			ZX ZX	
_	105	156		Sand	<u></u>					-
	156	163	17	GRAUE)			İ	PORKWA	1 Rd.	POST REL
		12.532	<del>                                     </del>							12
	<u> </u>	<del> </del>	1	<u> </u>						120
		-			· · · · · · · · · · · · · · · · · · ·		, [	<del></del>		
_		<del>                                     </del>				<del></del>		(	stebooce	rek Ave
		<u> </u>			· <del></del>		<u> </u>	<i>-</i> . 1		
20	. TESTE	YIFLD			WELL DRILL	ED BY:	-losurch	Shoonle.	279	
			fferent dept	he during drilling, list below.		/		MG WH	( P. Y	(d.C. )
		Feet		Gallons Per Minute	DOING BUSIN	IESS AS:	ZKEEN	Compony or Business		100
_		60	_	_7	4					
	-				REPORT FIL	ED BY:		Authorized Signa	fure	
					4	.510	3/82	- -		53
_	L				J DATE OF REI	PORT: 12 (	100	WELL DRILL	ERS LIC. N	10. <u> </u>

WELL NUMBER

1976-4/
(For Driller's Use)

# State of Vermont PPARTMENT OF WATER RESOURCES

	WELL COMPLETION REPORT	DO NOT FILL IN
Pield Loc Map Des	<del></del>	#171
o.72°57'03 HU		
o.72°57'03   HU cale:62500[],25000[],24000[	□ SEP γ 1976	
WELL FRANK PA	CATED: PLUTIANO TOWN	Mailing Address
TOWN IN WHICH WELL IS LOC	9-7-76	(Please locate well on a large scale map to accompany this report. Maps are available on
		request.) ] Business Establishment
PROPOSED USE OF WELL:	Municipal   Industrial   C	other (Specify)
DRILLING EQUIPMENT:	Cable Tool Rotary Air	Percussion
TOTAL DEPTH OF WELL:	STATIC WATER	DUBRIFICIO TRICICOS
CASING DETAILS: Length S	Other (Specify)  STATIC WATER  Aft. Diameter in. Material	JTEEC
Woight /	9 9 1 In /ft	
SCREEN DETAILS: Make	Material Size	
Diameter	in. Slot Size  TO SCREEN OR BEDROCK:	U N C
METHOD OF SEALING CASING	TO SCREEN OR BEDROCK: Compressed Air	
FINAL YIELD TEST:   Baned	d, or Pumped, or Compressed Air Hours at Z gallons per minute	
	during yield test	
	during yield test	
WELL LOG		
Depth From	Give description of formations penetra clay, hardpan, shale, limestone, granite, and sand (fine, medium, coarse, color	of material, structure floose, packet
Ground Surface	cemented, hard). For example: Surfacto 134 ft. gray granite.	e to 27 ft. nne, packed, yenow sar
Surface to 7.5 ft.	Ly	0 /
75 to 70 ft. Gra	INSCHOPTED DYNIMA	1 Dolam ITE
to ft.		
to ft.		
to ft.		TO THE OWNER OF THE PARTY OF THE OWNER OWNER OF THE OWNER O
-	If yield was teste	LD TEST DATA IN G.P.M. d at different depth during drilling List Below
ft.		G.P.M.
ft.		G.P.M.
ft.		G.P.M.
WATER ANALYSIS: Has water Include Anal	been analyzed?   Yes No If Yes, Where,	En 1.01
DRILLED BY:	Maymen I of	Signatu
DOING BUSINESS AS:	GREEN ///T. VRIUN	Compa
DATE OF REPORT:	- 74-76 WELL DRILLERS I	LICENSE NO.
5M 12-73		

WELL NUMBER

5M 6-76

(For Driller's Use)

# State of Vermont DEPARTMENT OF WATER RESOURCES

(This report must be completed and submitted to the Department of Water Resources, State Office Building,	WELL COMPLETION REPORT	do not fill in
Montpeller, Vermont 05602, no later than 60 days after completion of well. Complete or line out all blanks.)	APR 2 1 1980	
Na	Townline Rd Ruttand VI	Malling Address
	scale i	e locate well on a large map to accompany this . Maps are available on
DATE WELL WAS COMPLETED:	requ	iest.)
PROPOSED USE OF WELL:	☐ Domestic ☐ Agricultural ☐ Bu☐ Municipal ☐ Industrial ☐ Othe	siness Establishment r (Specify)
DRILLING EQUIPMENT:	Cable Tool	cussion
TOTAL DEPTH OF WELL: 30	o At STATIC WATER	S #T
CASING DETAILS: Length 30	A. ft. Diameter /O in. Material	lea.l
SCREEN DETAILS: Make	Materialin. Slot Size	Length
FINAL YELD TEST: Bailed,	TO SCREEN OR BEDROCK: No bedrock —  or Pumped, or Compressed Air  Hours at 34 gallons per minute	en slave around cutside 60.77
Water level d	luring yield test. 27.11.	
WELL LOG	Give description of formations penetrated, clay, hardpan, shale, limestone, granite, etc.	include size of graver (mainer
Depth From	and sand (fine, medium, coarse, color of mediu	iaienai sinninule uluse. Daca
Ground Surface	27 ft. to 134 ft. gray granite.	
Surface to 2 ft. Hardo	an 2/ 1 +-	
2 to 20 ft. Line sa	ndu clay - flease rater to other sia	4
to ft. Well complex	ted ot 30ft	**************************************
to ft.		T DATA IN G.P.M.
	If vield was tested at d	ifferent depths during drilling ist Below
G.P.M. @ f	t. G.P.M. @	ft.
······································	t. G.P.M. @	ft.
Include Analys	een analyzed? TYes No If Yes, Where is	2
DRILLED BY: Henry Enger	Henry	Signature
DOING BUSINESS AS: Above	i	Сотрац
DATE OF REPORT: Apr /	7 1990 WELL DRILLERS LICE	NSE NO. 159

je.

WELL NUMBER

367

(This report must be completed and

- submitted to the Department of Water

Resources, State Office Building, Montpelier, Vermont 05602, no later than 60 days after completion of well.

# (For Driller's Use)

# State of Vermont DEPARTMENT OF WATER RESOURCES

# WELL COMPLETION REPORT JUN 1 1 1981

DO NOT FILL IN

Complete or line out all blanks.)				
	Name			
	IS LOCATED: Rest \Co.	Sca	ie map to accompany	, fills
DATE WELL WAS COMPL	LETED: Message Life		ort. Maps are availa equest.)	bie on
PROPOSED USE OF WELL	L: ☑ Domestic 〔 ☐ Municipal	_ 0	Business Establishme ther (Specify)	
DRILLING EQUIPMENT:		☐ Rotary  ☐ Air		
		STATIC WATER	20 44	
TOTAL DEPTH OF WELL	ft. Diameter	SIATIC WATER	Steek	
CASING DETAILS: Length Weigh		G Hi. Harteria.		
SCREEN DETAILS: Make			Length	1 ft.
Diame	eter in. Slot Size	Address of the Control of the Contro	•	
METHOD OF SEALING CA	ASING TO SCREEN OR BEDI	ROCK: LATERAGE = =	)//a c	
FINAL YIELD TEST: 🗍	Bailed, or Dumped, or	Compressed Air		
	# Hours at ZC.e	gallons per minute		
Water	level during yield test	3.el		
WELL LOG  Depth From  Ground Surface	and and (from mo	le, limestone, granite, edium, coarse, color o For example: Surface ray granite.	t material siriicilire	d, yellow sand;
Surface to 150 ft.	hard pop Kild +	410101		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
150 to 360 ft.	Timestone			
to ft.				
to ft.		YIELD T If yield was tested a	TEST DATA IN G.P.N t different depths du List Below	M. ring drilling,
G.P.M. @	ft.	G.P.M. @	) ft.	
G.P.M. @	ft.	G.P.M. @	ft.	
WATER ANALYSIS: Has	water been analyzed? [] Yes [ Analysis			
DRILLED BY: Same	activities and the	Y		Signature
DOING BUSINESS AS:	Rosslan Water			Company
DATE OF REPORT: -\.\ 5M 6-76	20 1 1980	WELL DRILLERS L	ICENSE NO	I

### WELL NUMBER

# 128

(For Dellier's Use)

This report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office Bulloing, Montpeller, Vermont 05602, no loler than 60 days after completion of the well.

### State of Vermont

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

# WELL COMPLETION REPORT FEB 27 1981

Location map attached to WCR

WATER RESOURCE USE ONLY W.R. 754 U.S.G.S.\_ Field Location () Map area \_ Latitude \_\_\_\_\_ "Elev.\_\_\_\_ Longitude \_\_\_\_ "Topo.\_\_\_ Scale: 62,500 🗆,25,000 🗅, 24,000 🗆 Datain Town Flies 🖯

•								
		VNER	Cart	rin P. Hussey	Parmonant M	ailing Address		
Vá.	OR JELL BL	IRCHAS	FR C	Construction Management In	nc. 112	Stratton Rd. Rutland 05701		
				Destination of Thomas		Mailing Address U)   OT NO.		
2. L	OCATION	I OF WE	LLIT	PLETED 12/24/1980	10N			
				ELL: Comestic, O Other				
				G WELL: X New Supply, C Replace Existing Supply, C				
J. N	CASON	OR DIV		Provide Acditional Supply, () Other				
6. D	RILLING	EQUIP	MENT	Cable Tool Rotary with A-P, Colher				
				Mole in Bedrock, 🗷 Open End Casing, 🗔 Screened or Slotted;				
	TOTAL DEPTH OF WELL: 105 feet below lond surfoce.							
۰ ،	ASING F	INISH' C	1 ahnua	around Finished X Above ground, Unfinished, 🖸 Buried, 🗖 In P	H, 🗌 Removad, 🔲	None used, Other		
io. C	ASING D	ETAILS:	Total 16	ngth 105 ft. Langth ballow L.S ft Did	1 in. Materia	Steel #, 23 16./fr		
				IG DETAILS: Langin used				
12. M	METHOD	OF SEAL	LING (	CASING TO BEDROCK Q Drive Shoe, 口 Grout - 179	•	Drilled :A note ft. in Sedrock		
				Other				
13. S	SCREEN	DETAILS	S; wake	and Type,Male	ngl	tangthtt., Digmeter		
S	loi Size		, Cepin id	top of screen in feet below land surfaceft., G	ravetpockifused: 6	rquel Size or Type		
				Pumped, & Compressed Air, far Hours at	• •	Cormonal String issing		
				Measured by 🛎 Sucker, 🗆 Oriface pipe, 🕻	12/2	4/80		
15. 9	STATIC W	ATER L	EVEL	feet below land surface, Date or Time medi	u/ed	Overrious or		
16. \	WATER A	MALYSI	\$. H <b>a</b> ≉	the water been analyted ? 🗌 Yes 🗍 No , If Yes, Where	<u></u>			
			·		·	19. SITE MAP		
18. 1	WELL LO		<del></del>		<del></del>	Show permanent structure such as buildings, septic tanks, and/or		
	Feet	and Surtace Feet	Woter Bearing	Formation Description	Sketch	Indicate local street name and subdivision lot number		
	Ground Surface	95	·	Sand & boulders				
	95	105	x	Gravel				
'			1					
1			Ţ <del>-</del>					
-			†					
ļ		ļ. <u> </u>						
	<del></del>	}						
		-						
		-	-	6 gpm & 80 ft.				
				6 gpm & 80 ft.	George	Spear & Bob Hayward		
. 20.	TESTEC	YIELD		WELL DRILLED 8Y	George	Spear & Bob Hayward		
20.	TESTEC	os fested of di	ifferent d	WELL DRILLED BY:		echee Drilling Co Inc.		
• _ 20.	TESTEC	YIELD on tested at di	iffgrant d	WELL DRILLED BY:		Spear & Bob Hayward  echee Drilling Co., Inc.		
20.	TESTEC	os fested of di	ilfgrant d	WELL DRILLED BY:  Gallons Per Minute  DOING BUSINESS AS		cochee Drilling Co., Inc.		
• 20.	TESTEC	os fested of di	ilfgrant d	WELL DRILLED BY:	Ottauqu	conpony or Business Name  Authorized Signolure		

رآق

State of Vermont DEPARTMENT OF WATER RESOURCES

Para Charles

#/37 Form WR-59

- WR 137 USGS PTW-2	WELL COMPL	ETION REPORT			
Field Loc Map Des La.43°37' Alt 750 — Lo. 72°56' NU Scale:62500[],25000[],2	TS mitted to ite Office ater than		Do not fill in		
WELL		<u></u>			
OWNER In Walter Nam	Rydjoski 51b	ern Ave Rutland, Vt.	- A J J		
WELL			g Address		
Name	e	endon, Vt. 05759 Mailin	g Address		
PROPOSED USE OR USES (Ch	Desains				
☐ Other (Specify use)	Establish	ment Muni	icipal [ Industrial		
CASTING DETAILS		WATER LEVEL			
(Inside)	YIELD TEST	(From land surface) (if possible)	SCREEN DETAILS		
Length: 76 Feet	Bailed 4 Hours	Static: 4 Feet			
1	or Pumped	During Yield	Make: None		
Diameter: 6 Inches	or 25 GPM Compressed Air	Test: 76 Feet DRILLING EQUIPMENT	Material:		
Kind: Morris pipe		☑ Cable Tool	Slo		
		☐ Rotary	Size Length: Ft.		
Weight: 19 lbs/p/ft		☐ Air Percussion			
☑ New ☐ Used	Yield: 25 GPM	☐ Other (specify)	Diameter: in.		
─OTAL DEPTH OF WELL	76 <b>FEE</b> T	TOWN WELL IS LOCATED			
	MEL I		ion on reverse side of sheet)		
	WELL	LOG			
— Depth From Ground Surface	dium, coarse) color of mat	ions penetrated, such as: peat, tite, etc. Include size of gravel erial, structure (loose, packed, ked, yellow sand; 27 ft. to 134 f	(diameter) and sand (fine, me- cemented, hard). For exam-		
6 ft. to 1 ft.	Loom				
1 ft. to 13 ft.					
10 ft. to 63 ft.	Howdwan				
63 ft. to - 70 ft.					
		1.250			
		YIELD TEST DATA IN G.P			
-	ir yieid v	was tested at different depth List Below	during drilling,		
ft.		G.P.M.	····		
ft.		G.P.M.			
ft.		G.P.M.			
s sample of well water been as	nalyzed? no				
here was sample analyzed? ∽lude analysis of sample if an	nalyzed by other than Depart	tment of Water Resources )			
		of Report 7/5/73			
ter Well Driller's License No.	• • •	Driller Caluin Roll	eture)		

## State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

- WR #8 USGS RTW	-7b	WELL COMPLE	CTION REPORT			
Field Loc M Map Des La. 43°39'32 Alt 720 Lo. 73°00'05 HU Scale:62500 ,25000	TS	tted to Office er than		Do not fill in  State Well No.  No. 43° 39' 18'  Other No. w. 120 59' 58"		
WELL WNER NORMAN S.	BAICER	Plains	Read Pitts	FORD UT.		
WELL PRILLER GREEN N	IT. DRI	ung Co.	INC. CENTER	RUTLAND UT		
PROPOSED USE OR USES (C	me heck):		J	Address		
Domestic	cultural	☐ Business Establish	1   1018161671613	al [Industrial		
Other (Specify use)	<del></del>		A TOTAL TOTA	1		
CASTING DETAILS (Inside)	YIE	LD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS		
ength: 28 Feet	☐ Bailed or	/ Hours	Static: Feet	Make:		
	☐ Pumped or	GPM	During Yield Test: Feet	//ONE		
Diameter: O Inches	Compres	ssed Air	DRILLING EQUIPMENT	Material: / Slot		
Kind: STEEL			☐ Cable Tool	Size		
Weight: \( \begin{align*} \text{lbs/p/ft} \end{align*}			Rotary	Length: Ft.		
		<i>2</i> .	☐ Air Percussion	Diameter: in.		
New Used	Yield:	<b>⊘</b> GPM	Other (specify)			
TOTAL DEPTH OF WELL		97 FEET		ED IN: RURALD TOWN cation on reverse side of sheet)		
		WELL	LOG	cation on reverse side of sheet)		
	la.					
<ul><li>Depth From Ground Surface</li></ul>	pan, shale dium, coa	e, limestone, grani irse) color of mat	ite, etc. Include size of grave	t, silt, sand, gravel, clay, hard- l (diameter) and sand (fine, me- l, cemented, hard). For exam- t, gray granite.		
- O ft. to 22 f	t. Neo.	SAND W/	Bourners			
22 ft. to 97		AART2				
ft. to	ft.					
				1 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ft.	<del>-</del> ·				
		If yield	YIELD TEST DATA IN G.P. was tested at different depth			
~		<del></del>	List Below			
	ft.	-	G.P.M.			
4	ft.	. <del></del>	G.P.M.			
	ft.		G.P.M.			
as sample of well water beer	n analyzed?	No				
Where was sample analyzed? Ticlude analysis of sample is	analyzed by	other than Depa	rtment of Water Resources.)			
ater Well Driller's License No. 5						
ater Well Driller's License	No. 5	·	Well Driller	nature)		

PITTSFORD Ri PINNACLE RIOGE RUAD Pier Ro North N. GREVE ST. CEDAR AUE To Runan

MAR 6 - 1967

Dept. of Water Resources

## State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

- WR #7 USGS W-90	WELL C	OMPLET	TON REPORT				
Field Loc Map Des La. 43°39'21 Alt 690	:ted to				_	not fill in	
Lo. 72° 59' (8 HU	er than			,	Other No.	No. 10-43-39 10-729-59	18.5"
Scale:62500,25000,			· · · · · · · · · · · · · · · · · · ·				
WELL DWNER Edward Na:	FENTON Me		RUTUR	ر مر Mailing	Address	1T.	
WELL  WELL  ORILLER GREEN // Nat	POUNTAIN DE	216612	g Co, In	c. Co	DIEN Address	Rutha	907
PROPOSED USE OR USES (C	me heck):			Maining	Address		
Domestic □ Agri		usiness Istablishm	ent [	] Municipa	1	☐ Industria	ıl
Other (Specify use)							<del></del> .
CASTING DETAILS (Inside)	YIELD TEST		WATER LEY (From land su (if possible	rface)	SCREI	en details	
Length: 50 Feet	□ Bailed 2	Hours	Static:	# Feet	35-3		
Length: 50 Feet	Or Dumped	I	During Yield Fest:	Feet	Make:	11	-
Diameter: 3 Inches	or Compressed Air	GPM	DRILLING EQUI		Material:	NON	=
Kind: 57682		[	☐ Cable Tool				Slot   Size
			<b>₹</b> Rotary		Length:	Ft.	
Weight: 16 lbs/p/ft		1	☐ Air Percussion		Diameter:		in.
New 🗆 Used	Yield: 5	GPM [	Other (specify)		Diamoter:		
TOTAL DEPTH OF WELL	128-0	FEET	TOWN WELL			soman aido of	ahaat)
			(Make sketch		, Tow		Silect
A		WELL	LOG				
Depth From	Give description of pan, shale, limeston	formation	ns penetrated, suc	h as: peat	, silt, sand,	gravel, clay	, hard-
Ground Surface	dium, coarse) color ple: 0 ft. to 27 ft. fin	of mater	ial, structure (loo	se, packed	i, cemented,	hard). For	exam-
- O ft. to 5 f	it. SANO	<u> </u>	,				
5 ft. to 45		7	744				
- 1/ 1-			Documir	-e-	· · · · · · · · · · · · · · · · · · ·		
	ft.	<u></u>		<del></del>			
	ft.	<u> </u>					
ft. to	<u> </u>		YIELD TEST DAT				
_	Ĭ	f yield w	as tested at diffe: List Bel		during drill	ling,	
	ft.		G.P.M	<del></del> 1.			
4	ft.		G.P.N				
		G.P.M.					
	ft.	· · · · · ·	G,1 .lv	**			
Has sample of well water bee	n analyzed?	>					
Where was sample analyzed? Include analysis of sample is	f analyzed by other tha	an Depart	ment of Water R	esources.)			
-	12-14-66		Date of Report		4-66	0/1-	-
Nater Well Driller's License	No. 51		Well Driller	Ilon	JAK	lut	
	<u> </u>			(a/g)	nature) (		

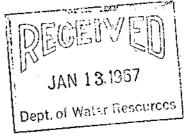
PITTSFORD

NORTH A

XNELL

WELL LOCKIED 50'FROM RUAD SECOLD HOUSE FROM RT. 7 PROSPECT HILL RUAD

TO RUZANO

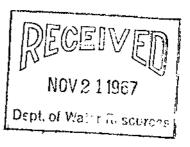


# State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

-WR #24 USGS RTW-	98 W	ELL COMPLI	ETION REPORT	
Field Loc Map DesLa. 43°38'07 Alt 620	TS ate Of			Do not fill in
-Lo. 72° 58' 5	loto tl			State Well No. 43° 38'16" Other No. W-72'59'04"
WELL OWNER RUILAND TOWN	FIRE DEPT.	STATION	* RFD Part	CANO UT.
Na Weii.	ime -		Mailin	<b>-</b>
		Co. Tu	SC. Bey 26 Co	T, WILAND OT. g Address
PROPOSED USE OR USES (C	•	_ Business	em necustati	
Domestic Agr.  Other (Specify use)	icultúral	Establish Establish	ment Municip	al 🔲 Industrial
CASING DETAILS	YIELD T	TROTT	WATER LEVEL	CODEWN DETRATIC
(Inside)	ALERO 1	1	(From land surface) (if possible)	SCREEN DETAILS
Length: 3 / Feet	☐ Bailed or	/ Hours	Static: 20 Feet	Make: Long
	□ Pumped or	/ GPM	During Yield Test: Feet	
Diameter: O Inches	Compressed .	Air	DRILLING EQUIPMENT	Material: Slot
Kind: 782			Cable Tool	Size
Weight: 16 lbs/p/ft			Rotary  Air Percussion	Length: Ft.
New Used	Yield:	/ GPM	Other (specify)	Diameter: in.
TOTAL DEPTH OF WELL	.30	<del>/</del>		TED IN: Ruresmo Tow
ome blain of wear	ر) (ب	O PEET		cation on reverse side of sheet
-		WELL	. LOG	
Depth From Ground Surface	pan, shale, lim dium, coarse)	estone, grani color of mat	ite, etc. Include size of grave	t, silt, sand, gravel, clay, hard l (diameter) and sand (fine, me d, cemented, hard). For exam lt. gray granite.
- O ft. to 25 f		 بو		
25 ft. to 300 f	it. Down	n /TE	LT, & DK. GR	<del>9</del> 4
ft. to	it.			/
ft. to	ft.			
ft. to	it.			
-		If yield	YIELD TEST DATA IN G.P. was tested at different depth List Below	
228	ft.		₹ G.P.M.	<u> </u>
	ft.	• •	G.P.M.	
	ft.		G.P.M.	
Has sample of well water beer	y 3	•		
There was sample analyzed?			rtment of Water Resources.)	
	0-17-6		Date of Report 10-18	-67
Jater Well Driller's License	•		Well Driller Llo	All Rolling

To Pristoko POST ROAD 1-mine



# State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

WR419 USGS RTW- Field Loc M Map Des La. 43° 38' Alt 705 Lo. 72° 57¹ HU Scale:62500□,25000□	TS itted to		Do not fill in State Well No. Other No. Sec. 06-071-006	
WELL NOBERT WYN	NE JR. Blue RIO		CAND Town Address	
TITET T	Deicing Co. tu	-	m. Rurunnoj UT, Address	
PROPOSED USE OR USES (C		☐ Municina	l □ Industrial	
Other (Specify use)				
CASTING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS	
Length: 196 Feet  Diameter: 6 Inches	☐ Bailed / Hours ☐ Pumped ZZGPM ☐ Compressed Air	Static: Feet  During Yield Test: Feet  DRILLING EQUIPMENT	Make: Nout	
	D Compressed in	☐ Cable Tool	Slot   Size	
Kind: STEEL		Rotary	Length: Ft.	
Weight: / 6 lbs/p/ft		☐ Air Percussion	Diameter: in.	
New ☐ Used	Yield: 22 GPM	☐ Other (specify)		
OTAL DEPTH OF WELL  Depth From	pan, shale, limestone, grani	(Make sketch of well loc  LOG  ons penetrated, such as: peat ite, etc. Include size of gravel	ation on reverse side of sheet)  silt, sand, gravel, clay, hard- (diameter) and sand (fine, me-	
Ground Surface	dium, coarse) color of mate	erial, structure (loose, packed ed, yellow sand; 27 ft. to 134 ft	, cemented, hard). For exam-	
- O ft. to 190	ft. Clay, Harop	AN & BOULDE	rs	
190 ft. to 328				
ft. to	ft.			
_ ft, to	ft.			
ft. to	ft.			
	If yield	YIELD TEST DATA IN G.P. was tested at different depth List Below		
	ft.	G.P.M.		
	ft.	G.P.M.		
	ft.			
as sample of well water bee	en analyzed? No			
Where was sample analyzed?		rtment of Water Resources.)		
ate Well was Completed .		Date of Bonowt / - 1 6	-67	
ater Well Driller's License	1	Well Driller Lley (Signature)	Polost -	

Blue Rioge Drive. Rr. #7 PITTSFORD POWER STATION

Ospt. of Water Resources

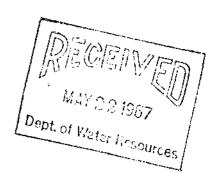
KAN BU

# State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

- w#17 usgs RTW-	156 WELL COMPLE	CTION REPORT	
Field Lock Map Des_ La. 13°86' Alt 7/5 _Lo. 72°57 HU Scale: 62500 ,25000 ,2	mitted to		Do not fill in State Well No. Other No. Sec. 06-071-006
WELL ALEXANDER Na	Vernoer Post Rumo		Address UT
WELL GREEN MT	Druma Co.	Box 26 Can	er Rutin No, UT Address
PROPOSED USE OR USES (C	me heck):	Mailing	Address
Domestic	icultural Business Establish	1	l 🗀 Industrial
Other (Specify use)			
CASTING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 5 & Feet	Bailed / Hours	Static: 7 Feet During Yield	Make: NONE
Diameter:	or O GPM  Compressed Air	Test: Feet DRILLING EQUIPMENT	Material:
Vivia Carro	Compressed 7m	☐ Cable Tool	Slot Size
IKind: STEEL		12 Rotary	Length: Ft.
Weight:   lbs/p/ft		☐ Air Percussion	Diameter: in.
New Used	Yield: /OO GPM	☐ Other (specify)	
TOTAL DEPTH OF WELL	/72 FEET		ED IN: RUMANO TOWN
	Michigan	•	cation on reverse side of sheet
		L LOG	
<ul> <li>Depth From Ground Surface</li> </ul>	pan, shale, limestone, gran	nite, etc. Include size of grave	t, silt, sand, gravel, clay, hard l (diameter) and sand (fine, me d, cemented, hard). For exam ft, gray granite.
- 0 ft. to 45	ft. Clay w/ Pour	LPETES	
45 ft. to /72	Et. Clay w/ Bour	Dolum 176	
	ft.		
ft. to	ft.		
ft. to	ft.		
	If yield	YIELD TEST DATA IN G.P was tested at different depth List Below	
	ft.	G.P.M.	
	ft.	G.P.M.	
	ft.	G.P.M.	
tas sample of well water bee	1		
Jhere was sample analyzed?		artment of Water Resources.)	
ate Well was Completed			67,1
Yater Well Driller's License	No. 5/	Date of Report 5-Z/ Well Driller Ju-y/3	MiMu-A. gnature)

Chasanua DRIVE EASY STI Blue RIDGE DRIVE (UELL-Rurinno Touro Elson School NORTH Post Road To Pittsford RT, #7 POWER House =



TERN

### State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

	<i>DE.</i> A.			roim wicos
WR 14 USGS LTW- Field Loc⊠ Map Des	-88 WI	ELL COMPLI	ETION REPORT	
- La. 43° 39'37 Alt 705	TSitted			Do not fill in
Lo. 73° 00′ 03 HU Scale: 62500 ,25000 ,	e Off			State Well No. Other No. Sea 06-071-00-2
		<u> </u>	<u> </u>	01101 110.44 20.477 000
WNER HENRY FIT	ZGERALD	Jr.	EDAR AUE. Railing	FD Rurano, UT
TELL RILLER GREEN MT	Denuing	G., I	ic Rox 26 Mailing	TR. RUTLAND, UT
PROPOSED USE OR USES (C	heck):	-	Manni	rualess
Domestic	icultural	Business Establish		al 🔲 Industrial
☐ Other (Specify use)		22,000		
CASING DETAILS (Inside)	YIELD T	EST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
-	☐ Bailed	/ Hours	Static: Feet	4/
Length: 30 Feet	or Dumped	Flours	During Yield	Make: NONE
Diameter: 6 Inches	_ or	← GPM	Test: Feet DRILLING EQUIPMENT	Material:
James Co.	Compressed	Air		Slot
Cind: STEEL			Cable Tool	Size
weight: 16 lbs/p/ft			Rotary	Length: Ft.
		<i>^</i> .	☐ Air Percussion	Diameter: in.
New Used	Yield:		Other (specify)	
OTAL DEPTH OF WELL	17.	7 FEET	TOWN WELL IS LOCAT	ED IN: RUSLAND TOWN
	12	,		cation on reverse side of sheet)
-		WELI	L LOG	
Depth From Ground Surface	pan, shale, lim dium, coarse)	iestone, gran color of mat	ite, etc. Include size of grave erial, structure (loose, packe	t, silt, sand, gravel, clay, hard- l (diameter) and sand (fine, med, cemented, hard). For exam-
		· · · · · · · · · · · · · · · · · · ·	ed, yellow sand; 27 ft. to 134	ft, gray granite.
O ft. to 24	ft. FINE	Sano	W/ BOURDERS	qq
- 24 ft. to 127	ft. DURIT	nm D	W/ BOULDERS	
ft. to	ft.			
ft. to	ft.	· <del>-</del> · · · <del>-</del> · · · · ·		
ft. to	ft.		YIELD TEST DATA IN G.P	M
·		If yield	was tested at different depth List Below	
	ft.		G.P.M.	
	ft.		G.P.M.	
<del></del>				
	ft.	•	G.F.IVI.	
as sample of well water bee	n analyzed?	)o		
Where was sample analyzed?		ar than Dana	rtment of Water Resources.)	
·		-		4-1-17
	7-20-6	•		Photo I
"ater Well Driller's License	No. >/		Well Driller	nature)

PITTEFERD PITTFORM Nerrh PINNAGUE Rome Weri Paspeer the Rd. RUTLAND



#### State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

- WR#6 ,USGS RTU	WELL COMPLE	ETION REPORT	
Field Loc (M) Map Des La.43°38' Alt 765 Lo.72°57' [ HU Scale:62500[ 1,25000[	itted to TS : Office er than		Do not fill in  State Well No. 43° 38' 11"  Other No. 10 - 72° 57' 45!
WELL WHER MRS ME CO	DRM 1CJ+	POST ROAD RI	TLAND TOWN Address
	10UNTIAN DRILLIA	•	
PROPOSED USE OR USES (C	theck):		Address
☐ Domestic ☐ Agr	icultural Business Establish	י אווי אווער די די די די די די די די די די די די די	al Industrial
Other (Specify use)	1	T TAY A CONTROL OF TAX TEXT	1
CASTING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 158 Feet	☐ Bailed ☐ Hours ☐ Pumped ☐	Static: 65 Feet During Yield	Make: NONE
Diameter: 6 Inches	or GPM	Test: Feet DRILLING EQUIPMENT	Material:
, STEr/	☐ Compressed Air	☐ Cable Tool	Slot
Kind: STEEL		Rotary	Length: Ft.
Weight: / lbs/p/ft		☐ Air Percussion	Diameter: in.
New Used	Yield: 5 GPM	☐ Other (specify)	
OTAL DEPTH OF WELL	156 FEET	TOWN WELL IS LOCAT	ED IN: RUTLAND TOWN cation on reverse side of sheet)
-	WEL	L LOG	,
Depth From Ground Surface	pan, shale, limestone, gran	ite, etc. Include size of gravel	, silt, sand, gravel, clay, hard (diameter) and sand (fine, me l, cemented, hard). For exam- t, gray granite.
- O ft. to /50	ft. GLACIAL	TILL BOUL	DENS BLAY
150 ft. to 156	it. ETC	TILL BOUL	
ft. to		DOLOMITE	
ft. to	ft.	·	
ft. to	ft.		······································
	If yield	YIELD TEST DATA IN G.P. was tested at different depth List Below	
	ft.	G.P.M.	
	ft.	G.P.M.	
	ft.	G.P.M.	
as sample of well water bee	n analyzedWO		
here was sample analyzed?	f analyzed by other than Depa	ertmont of Water Resources)	
ate Well was Completed 9	•	Date of Report 12-2-	66
ater Well Driller's License	-	Well Driller Hoylist	
	· ,	(sign	nature) V

(INFINI) 2 proox 1404D 1901B 1901B JY 1007 दमन्त्र 1.डन्ट

#### State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

- wr ,usgs(),	チョ <del>ュ</del> METT COMbtr	CTION REPORT	
r Field Loc Map De	ted to		Do not fill in
th La. Alt Lo. HU	TSOffice		State Well No. 430 38" 16"
Scale:62500[],25000			Other No. W. 72"57.45"
WELL -WNER LEE YOU A Na	V6 CH)	95 A NN A DRIVE RU Mailing	Address
WELL DRILLER REED MOUN	UTIAN DEILLAG COIN		
r ROPOSED USE OR USES (C		Maning	Address
Domestic	icultural Business Establish		l 🔲 Industrial
/ ] Other (Specify use)	E5(80H5H	mon	
CASTING DETAILS	TATAL S. MYLOGO	WATER LEVEL	CODEEN DETAILS
(Inside)	YIELD TEST	(From land surface) (if possible)	SCREEN DETAILS
	☐ Bailed Hours	Static: 60 Feet	
ength: 6/ Feet	or Pumped	During Yield	Make: NONE
Diameter: 6 Inches	or / GPM	Test: Feet DRILLING EQUIPMENT	Material:
	Compressed Air	******	Slot
Kind: STEEL		Cable Tool	Size Length: Ft.
Weight: / lbs/p/ft		☐ Rotary	Length: Pt.
		☐ Air Percussion	Diameter: in.
New Used	Yield: 5 GPM	☐ Other (specify)	
TOTAL DEPTH OF WELL	152 FEET	TOWN WELL IS LOCAT	ED IN: RUTLAND TOWN
		·	ation on reverse side of sheet)
-	WELL	LOG	
20.01.20	Give description of formati	ons penetrated, such as: peat	, silt, sand, gravel, clay, hard-
Depth From Ground Surface	dium, coarse) color of mate	ite, etc. Include size of gravel erial, structure (loose, packed ed, yellow sand; 27 ft. to 134 fi	(diameter) and sand (fine, me, cemented, hard). For examine, gray granite.
- O ft. to FF	A. GLACIAL	TILL BOUL	DERL CLAY
ft. to	ft.		
ft. to	ft.		
	ft.		
ft. to	ft.	YIELD TEST DATA IN G.P.I	<u></u> М.
_	If yield	was tested at different depth List Below	during drilling,
<b></b>	ft.	G.P.M.	
	ft.	G.P.M.	
**************************************	ft.	G.P.M.	
'as sample of well water bee Vhere was sample analyzed?	•		
nclude analysis of sample is	f analyzed by other than Dena	rtment of Water Resources.)	16
ate Well was Completed	4-30-66	Date of Report 12-2	011
Vater Well Driller's License	No. 5/	Date of Report /2-2-1	leave

ROUTE ! POSTRUAD 34MILE 1501 30 Fait from Road BLUE RIDGE ACRES ROAD RUTUAND

# State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-59

_ up#4 vece 071.		LL COMPLI	ETION REPORT	
WR #4 USGS RTW "Field Loc ® Map Des tl La.42°38 27 Alt 840 B Lo.72°56	TS Offi	ce		Do not fill in  State Well No. 43° 36' 24"  Other No. W-72° 56' 24"
WELL TOWNER JOE SELVA		FIRST S	57,	RUTTAND CITY Address
WELL.		RILLIAN.		
PROPOSED USE OR USES (C			Mailing	Address RUTLAD
T⊈ Domestic ☐ Agr	icultural	□ Business Establish		al [] Industrial
Other (Specify use)				
CASTING DETAILS (Inside)	YIELD TE	EST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 155 Feet	☐ Bailed or ☐ Pumped	Z-Hours	Static: Feet During Yield	Make: NUNE
Diameter: 6 Inches	or	4-5 <sub>GPM</sub>	Test: Feet DRILLING EQUIPMENT	Material:
Kind: STEEL	Compressed A	<b>11</b>	☐ Cable Tool	Slot Size
//			X Rotary	Length: Ft.
Weight: / lbs/p/ft	د	•	☐ Air Percussion	Diameter: in.
New Used	Yield: 45	GPM	Other (specify)	
TOTAL DEPTH OF WELL	232	FEET WELI	TOWN WELL IS LOCAT (Make sketch of well located)	ED IN: RUTLAND TOWN cation on reverse side of sheet)
_ Depth From Ground Surface	pan, shale, lime dium, coarse) c	estone, gran color of mat	ions penetrated, such as: peatite, etc. Include size of grave erial, structure (loose, packed ed, yellow sand; 27 ft. to 134 f	, silt, sand, gravel, clay, hard (diameter) and sand (fine, me l, cemented, hard). For exam- t, gray granite.
- O ft. to 150	ft. GLAC	1194	TILL, BOUL	DERS LCLAY ETC
150 ft. to 237			POLOMITE	
ft. to	ft.		· · · · · · · · · · · · · · · · · · ·	
ft. to	ft.			
ft. to	ft.			
-		If yield	YIELD TEST DATA IN G.P. was tested at different depth List Below	
	ft.		G.P.M.	
	ft.		G.P.M.	
1	ft.		G.P.M.	
Ias sample of well water bee	n analyzed? W	ク		
there was sample analyzed?	•		rtment of Water Resources.)	
ate Well was Completed	10-10-66	-	Date of Report /2-2	-66
Vater Well Driller's License	No. 5/		Well Driller Lloyd Sig	nature)

JEC 2 1956 Dept. of Water Resources DUN GINE ROAD C IIII MILE VICTORIA DEINE KILLINGTON AUG ROUTE 7 RUTUAND CITY